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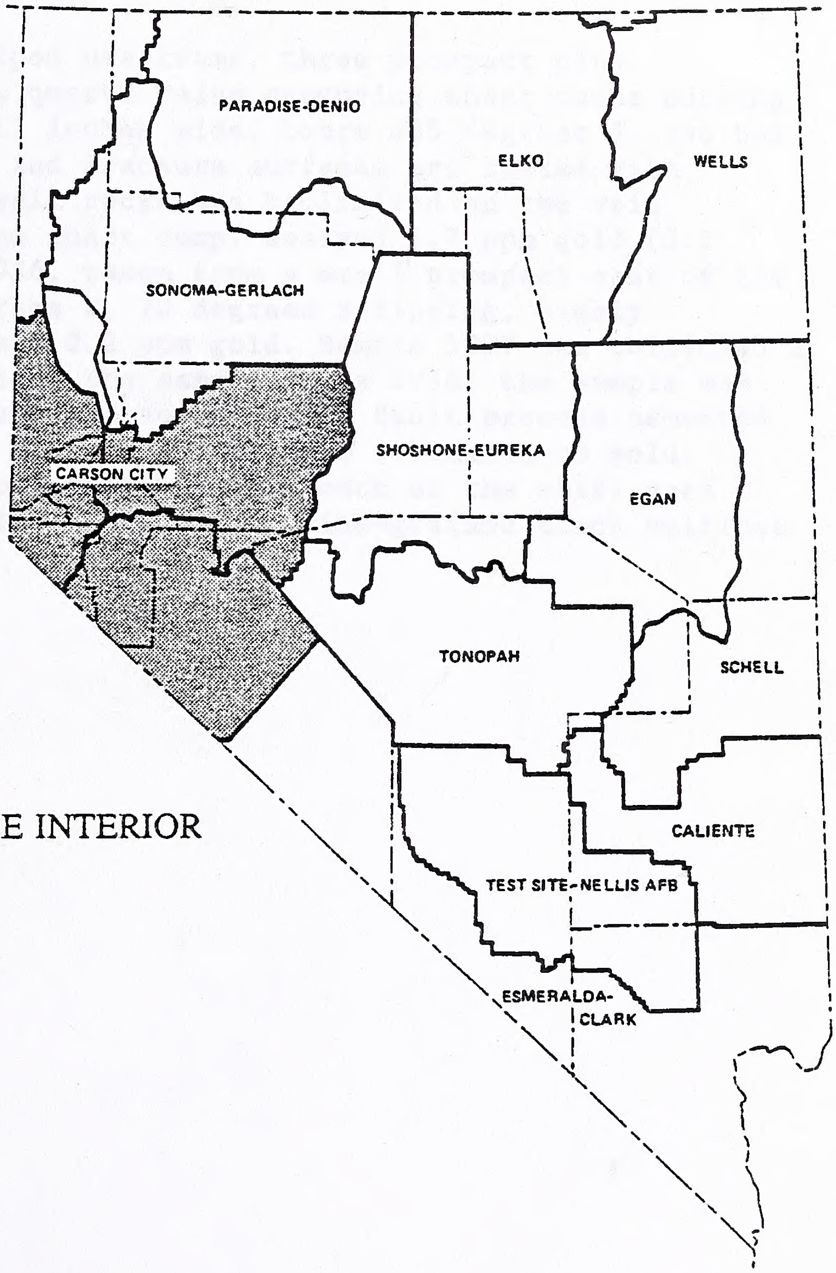
# Mineral Resource Inventory
# Bureau of Land Management, Carson City District, Nevada

## Appendix A
## Mines, Prospects, and Occurrences

pt. 2


PARADISE-DENIO
ELKO
WELLS
SONOMA-GERLACH
SHOSHONE-EUREKA
CARSON CITY
EGAN
TONOPAH
SCHELL
CALIENTE
TEST SITE-NELLIS AFB
ESMERALDA-CLARK

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*Prepared for:*
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Carson City Office
Carson City, Nevada

Under Cooperative Agreement 14-08-0001-A-0586
with the
U.S. GEOLOGICAL SURVEY

NEVADA BUREAU OF MINES AND GEOLOGY
UNIVERSITY OF NEVADA, RENO
January 1990

#904342825 ID88068278
TN 24 N3 T47 1990 v.2 c.1

PROPERTY NAME: One Mile claims
OTHER NAMES:
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein, shear zone
QUAD SHEET: La Plata Canyon
OWNERSHIP: S. Chapneys, C. Gardner, & Reynolds, Fallon, NV, staked Aug. 1986
SEC: 33 ,T: 19N ,R: 33E
North: 4369220 East: 389960
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Timbered shaft with tripod headframe, three prospect pits
GEOLOGY: The workings explore narrow quartz veins occupying shear zones cutting andesite. The vein at the shaft is 12 inches wide, bears N65 degrees E, and has an irregular dip. It is vuggy, vugs and fracture surfaces are coated with limonite and dark, red iron oxide, wall rocks are kaolinized on the vein contacts. Sample 3935, taken from the shaft dump, assayed 6.7 ppm gold (0.2 oz/ton) and 70 ppm silver. Sample 3936, taken from a small prospect east of the shaft, was collected from a N80 degrees W, 70 degrees E-dipping, highly brecciated vein. This sample contained 0.2 ppm gold. Sample 3937 was collected a few hundred feet to the northwest along the same vein as 3936; the sample was taken from a 6 inch wide vein exposure and consisted of fault breccia cemented with clear quartz, coated with iron oxides. This sample contained no gold. Sample 3938 was taken from a small prospect located south of the shaft area where narrow N-S trending quartz vein cut andesite, fine-grained black sulfides were seen in the vein material.
REMARKS:
SAMPLE SITE: 3935, 3936, 3937, 3938
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-8-86
Attachment:

PROPERTY NAME: Sample site 3930
OTHER NAMES:
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: La Plata Canyon
OWNERSHIP: Unknown
SEC: 10 ,T: 18N ,R: 33E
North: 4366000 East: 391420
PRODUCTION: Unknown
HISTORY: Unknown, claim posts are present, but no paper was found
DEVELOPMENT: Small adit and prospect pit
GEOLOGY: A 6- to 8-foot wide vein forms a bold outcrop on the east side of a tributary canyon that feeds in from the north of Eleven Mile Canyon. The vein is hosted in andesite and bears N60 degrees W, dips 85 degrees SW. The larger portion of the vein is a hydrothermal breccia containing minor pyrite in highly silicified matrix. Assays ran at or below detection limits for all elements except lead which ran 100 ppm.
REMARKS:
SAMPLE SITE: 3930
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-8-86
Attachment:

PROPERTY NAME: Sample site 3932
OTHER NAMES: Short Day claims
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, lead, copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: La Plata Canyon
OWNERSHIP: Richard Fisk, La Plata Gold Mines
SEC: 10 ,T: 18N ,R: 33E
North: 4366000 East: 390430
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Vertical shaft, caved about 20 feet below collar
GEOLOGY: Narrow, northeast-striking, near-vertical quartz vein cuts felsite and andesite, structure not well exposed. Vein material on dump consists of white quartz with chalcopyrite, pyrite, and possibly tetrahedrite; vein material streaked with green and blue copper oxide staining. Sample 3932 assayed 150 ppm silver, 300 ppm bismuth, 2000 ppm copper, 200 ppm lead, and 1500 ppm antimony.
REMARKS:
SAMPLE SITE: 3932
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-8-86
Attachment:

PROPERTY NAME: Sample site 3933
OTHER NAMES: Short Day claims
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, lead, copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: La Plata Canyon
OWNERSHIP: Richard Fisk, La Plata Gold Mines
SEC: 10 ,T: 18N ,R: 33E
North: 4365950 East: 390380
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Old shaft, now flooded
GEOLOGY: Quartz vein cuts felsite and andesite, structure not well exposed. Vein material on dump consists of white quartz with tetrahedrite, copper oxides, molybdenite and other sulfides. Sample 3933 assayed 150 ppm silver, 1000 ppm bismuth, 3000 ppm copper, 150 ppm molybdenite, 700 ppm lead, 700 ppm antimony, and 0.01 ppm gold.
REMARKS:
SAMPLE SITE: 3933
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-8-86
Attachment:

PROPERTY NAME: Sample site 3934
OTHER NAMES: Short Day claims
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, lead, copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: La Plata Canyon
OWNERSHIP: Richard Fisk, La Plata Gold Mines
SEC: 10 ,T: 18N ,R: 33E
North: 4365900 East: 390500
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small prospect pit
GEOLOGY: N30 degrees E-striking, 60 degrees NE-dipping, 4- to 6-foot wide, white quartz vein cuts what appears to be an altered andesite; granite crops out a few hundred yards to the southwest. Vein material chipped from exposures in the pit is coated with green and blue copper oxides, copper sulfides as well as galena and stibnite are present. Sample 3934 assayed 100 ppm silver, 200 ppm bismuth, 3000 ppm copper, 300 ppm lead, and 1500 ppm antimony.
REMARKS:
SAMPLE SITE: 3934
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-9-86
Attachment:

PROPERTY NAME: Sample site 3939
OTHER NAMES:
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Vein, shear zone
QUAD SHEET: La Plata Canyon
OWNERSHIP:
SEC: 3 ,T: 18N ,R: 33E
North: 4368275 East: 390585
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Caved east-facing adit
GEOLOGY: Adit was driven on a N-S trending fault zone in andesite. The fault zone is strongly kaolinized and consists of a 3- to 4-foot wide band of quartz stringers in a white, punky mass of gouge. Sample 3939 was chipped from the vein system above the adit portal. The sample was anomalous only in molybdenum (150 ppm).
REMARKS:
SAMPLE SITE: 3939
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-8-86
Attachment:

PROPERTY NAME: Sample site 3940
OTHER NAMES:
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Vein, shear zone
QUAD SHEET: La Plata Canyon
OWNERSHIP:
SEC: 3 ,T: 18N ,R: 33E
North: 4368220 East: 390380
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Narrow prospect trench
GEOLOGY: Trench explores a 4-foot wide vein, bearing N 85 degrees W, dipping 80 degrees SW, probably on the same trend as the structure at sample site 3939. The vein consists of quartz stringers coated with limonite and clots of hematite after pyrite. The wall rock near the vein is altered and strongly leached.
REMARKS:
SAMPLE SITE: 3940
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-8-86
Attachment:

PROPERTY NAME: Sample site 3941
OTHER NAMES:
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, copper, lead
TYPE OF DEPOSIT: Vein
QUAD SHEET: Pirouette Mtn.
OWNERSHIP:
SEC: 15 ,T: 18N ,R: 33E
North: 4365230 East: 392540
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small prospect site
GEOLOGY: The prospect explores a N 60 degrees E-striking, 70 degrees SE-dipping quartz vein, 4 to 5 inches wide, in brecciated andesite. The vein is exposed on the surface for about 50 feet along strike and contains copper oxides and tetrahedrite mineralization. Sample 3941 contained 150 ppm silver, 15,000 ppm copper, and 500 ppm lead.
REMARKS:
SAMPLE SITE: 3941
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-8-86
Attachment:

PROPERTY NAME: Sample site 3942
OTHER NAMES:
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver
TYPE OF DEPOSIT: Vein, shear zone
QUAD SHEET: Pirouette Mtn.
OWNERSHIP:
SEC: 15 ,T: 18N ,R: 33E
North: 4364800 East: 393120
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small prospect pit
GEOLOGY: Prospect explores a 1-foot wide quartz vein and adjacent veinlets that cut limestone. The veins bear N60 degrees E, dip 70 degrees NW, and contain minor base-metal sulfides. The sample assayed 110 ppm silver, 200 ppm copper, 70 ppm molybdenum, and minor lead.
REMARKS:
SAMPLE SITE: 3942
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-8-86
Attachment:

PROPERTY NAME: Sample site 3943
OTHER NAMES: Short Day claims
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, lead, copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: La Plata Canyon
OWNERSHIP: Richard Fisk, La Plata Gold Mines
SEC: 10 ,T: 18N ,R: 33E
North: 4365760 East: 390700
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Drill road, pad, rotary drill hole
GEOLOGY: Road cut exposes a series of N75 degrees E-bearing quartz veins and aplite dikes that cut granite and felsite, wall rock sericitized, displays red hematite staining. Composite sample collected from several veins assayed 20 ppm silver, 200 ppm bismuth, and minor amounts of copper and molybdenite.
REMARKS: Phelps Dodge Corp. drill hope LP-6 drilled from pad, hole depth 690 feet, collared in "greisen," penetrated biotite granite, andesite, ended in schist. Hole averaged 21 ppm Mo, highest value about 95 ppm Mo.
SAMPLE SITE: 3943
REFERENCES: Phelps Dodge Corp. data, private report
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-9-86
Attachment:

PROPERTY NAME: Sample site 3944
OTHER NAMES: Short Day claim area
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, molybdenum
TYPE OF DEPOSIT: Vein, contact (greisen)
QUAD SHEET: La Plata Canyon
OWNERSHIP:
SEC: 9 ,T: 18N ,R: 33E
North: 4365700 East: 390000
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft, caved
GEOLOGY: Quartz veins and aplite dikes cut granite, the dikes and quartz are more resistant to weathering than the granite; the granite forms a gruss while the vein quartz and aplites litter the hillsides with large fragments of float. The shaft was sunk on a N70 degrees E 35 degrees NW-dipping vein system. Wall rocks are kaolinized and sericitized and vein and wall rocks show minor manganese oxide staining. Sample 3944 was collected from the shaft dump and consisted of quartz with chalcopyrite, pyrite, ruby silver, and tetrahedrite. It assayed 100 ppm silver, 1000 ppm bismuth, 1500 ppm copper, 700 ppm lead, 100 ppm antimony, and 0.05 ppm gold.
REMARKS: This area is within claims formerly held and explored by Freeport Exploration and later Phelps Dodge Corporation, activity consisted of road building, geochemical sampling, and some rotary drilling.
SAMPLE SITE: 3944
REFERENCES: Phelps Dodge Corp. data
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-9-86
Attachment:

PROPERTY NAME: Sample site 3945
OTHER NAMES: Short Day claim area
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, molybdenum
TYPE OF DEPOSIT: Vein, contact (greisen)
QUAD SHEET: La Plata Canyon
OWNERSHIP:
SEC: 9 ,T: 18N ,R: 33E
North: 4365600 East: 389870
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Incline
GEOLOGY: Incline was sunk on a 2-foot wide banded quartz vein that may be a projection of the vein sampled in sample 3944. The vein cuts granite and strikes N70 degrees E, granite is kaolinized sericitized. The vein contains copper oxide minerals and silver sulfides. Sample 3945 assayed 700 ppm silver, 700 ppm bismuth, 700 ppm lead, 1500 ppm antimony, 500 ppm zinc, and 0.05 ppm gold.
REMARKS: This area is within claims formerly held and explored by Freeport Exploration and later Phelps Dodge Corporation, activity consisted of road building, geochemical sampling, and some rotary drilling.
SAMPLE SITE: 3945
REFERENCES: Phelps Dodge Corp. data
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-9-86
Attachment:

PROPERTY NAME: Sample site 3946
OTHER NAMES: Short Day claim area
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, molybdenum
TYPE OF DEPOSIT: Vein, contact (skarn)
QUAD SHEET: La Plata Canyon
OWNERSHIP:
SEC: 9 ,T: 18N ,R: 33E
North: 4366100 East: 389740
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Open cuts along roads
GEOLOGY: A skarn zone is exposed along the northern margin of a granitic stock where thin-bedded limestones and quartzites are in contact with the granite. Garnet skarn lenses have formed in larger masses of calc-silicate rock. The garnet skarn contains garnet, diopside, quartz and hematite-after-pyrite. Clots of calcite cut perpendicular to the bedding. The calc-silicate rocks form a shallow pendant underlain by granite at no more than 100 feet below outcrop. Sample 3946 was taken from skarn exposed in the road cut and contained quartz, hematite-after-pyrite and a trace of scheelite. The sample assayed 5000 ppm manganese, 200 ppm chromium, 30 ppm tin, and 500 ppm zinc.
REMARKS: This area is within claims formerly held and explored by Freeport Exploration and later Phelps Dodge Corporation, actively consisted of road building, geochemical sampling, and some rotary drilling.
SAMPLE SITE: 3946
REFERENCES: Phelps Dodge Corp. data
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-9-86
Attachment:

PROPERTY NAME: Sample site 3947
OTHER NAMES: Short Day claim area
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, copper, molybdenum
TYPE OF DEPOSIT: Vein
QUAD SHEET: La Plata Canyon
OWNERSHIP:
SEC: 9 ,T: 18N ,R: 33E
North: 4366420 East: 389960
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Several adits and prospect pits in the area southeast of Black Knob Spring
GEOLOGY: Main adit (now caved and covered by road building) was driven in metasedimentary rocks near their contact with granite. Most of the dump material is granite. Vein material on the dump consists chalcopyrite, pyrite, and tetrahedrite. Wall rocks were kaolinized and sericitized. Sample 3947 contained 700 ppm silver, 700 ppm bismuth, 7000 ppm copper, 200 ppm molybdenum, 1000 ppm lead, 1500 ppm antimony, and 300 ppm zinc.
REMARKS: This area is within claims formerly held and explored by Freeport Exploration and later Phelps Dodge Corporation, activity consisted of road building, geochemical sampling, and some rotary drilling.
SAMPLE SITE: 3947
REFERENCES: Phelps Dodge Corp. data
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-9-86
Attachment:

PROPERTY NAME: Sample site 3948
OTHER NAMES: Jolly Rodger claims
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, molybdenum
TYPE OF DEPOSIT: Vein, contact (skarn)
QUAD SHEET: La Plata Canyon
OWNERSHIP:
SEC: 32 ,T: 19N ,R: 33E
North: 4368540 East: 387480
PRODUCTION: Unknown
HISTORY: Silver mineralization discovered in area in 1862, most activity ceased by 1869.
DEVELOPMENT: Two adits
GEOLOGY: Triassic shale and siltstone in contact with Cretaceous granite, both are cut by veins and pods of white quartz which locally contain tetrahedrite, chalcopyrite, pyrite, and molybdenite. Granitic material from the large dump just east of La Plata Canyon is sericitized and iron-stained. Pods of garnite-epidote-calcite skarn have formed in places along the granite-sedimentary rock contact. Sample 3948 was collected from the adit dump just east of the canyon and consisted of both quartz vein and skarn material; vein material contained molybdenite, chalcopyrite, and minor scheelite. Dump contains silicated, kaolinized sericitized material. Sample 3948 assayed 30 ppm silver, 300 ppm copper, 150 ppm molybdenum, 100 ppm chromium, 200 ppm lead, 100 ppm antimony, 500 ppm zinc.
REMARKS: Area was staked as a molybdenum/copper prospect in 1970, two shallow rotary drill holes placed in area of iron-stained dump and La Plata Canyon west of the dump. Holes intersected weak skarn mineralization with trace molybdenite, chalcopyrite.
SAMPLE SITE: 3948
REFERENCES: J. Tingley, personal note
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-9-86
Attachment:

PROPERTY NAME: Sample site 3949
OTHER NAMES: Jolly Roger claims
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, molybdenum
TYPE OF DEPOSIT: Vein, contact (skarn)
QUAD SHEET: La Plata Canyon
OWNERSHIP:
SEC: 32 ,T: 19N ,R: 33E
North: 4368380 East: 387620
PRODUCTION: Unknown
HISTORY: Silver mineralization discovered in area in 1862, most activity ceased by 1869.
DEVELOPMENT: Shaft, trench on top of hill
GEOLOGY: Workings explore a 1-1/2-foot wide quartz vein in sericitized granite, vein bears N70 degrees W, dips 65 degrees NE, and contains visible molybdenite, chalcopyrite, azurite, and an unidentified gray sulfide. Sample 3949 contained 700 ppm silver, 100 ppm bismuth, 7000 ppm copper, 500 ppm molybdenum, 5000 ppm lead.
REMARKS: Within the claim block staked by Conoco in 1970.
SAMPLE SITE: 3949
REFERENCES: J. Tingley, personal notes
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-9-86
Attachment:

PROPERTY NAME: Sample site 3950
OTHER NAMES: Jolly Rodger claims
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, molybdenum
TYPE OF DEPOSIT: Vein, contact (skarn)
QUAD SHEET: La Plata Canyon
OWNERSHIP:
SEC: 32 ,T: 19N ,R: 33E
North: 4368440 East: 387700
PRODUCTION: Unknown
HISTORY: Silver mineralization discovered in area in 1862, most activity ceased by 1869.
DEVELOPMENT: Shaft and incline along with trenches and prospect pits, none of the quite extensive workings shown on the La Plata Canyon 7-1/2 map.
GEOLOGY: The shaft and incline follow an irregular contact between shale and siltstone and granite, general trend of the contact is N75 degrees W, 35 degrees NE. Garnet-epidote skarn has formed along the contact. Sample 3950 was taken from the shaft dump and contained garnet, epidote, calcite, and vein quartz material. The sample assayed 150 ppm copper, 50 ppm molybdenum, 50 ppm tin, 500 ppm zinc.
REMARKS: Within the claim block staked by Conoco in 1970.
SAMPLE SITE: 3950
REFERENCES: J. Tingley, personal note
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-9-86
Attachment:

PROPERTY NAME: Scheelite Extension mine
OTHER NAMES:
MINING DISTRICT: Leonard
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Big Kasock Mountain
OWNERSHIP:
SEC: 1 ,T: 13N ,R: 32E
North: 4321346 East: 299606
PRODUCTION: small
HISTORY: unknown
DEVELOPMENT: Trenches, adit along contact, old ore bin and remains of tram line from mine to bin
GEOLOGY: Garnet skarn developed along N25W-striking, 75-degree SW-dipping contact zone between marble and granodiorite. Skarn lense is about 4 feet thick, consists of massive garnet with glassy quartz, diopside, and minor scheelite. Scheelite is pale yellow-creme and blue-white under UV light.
REMARKS:
SAMPLE SITE: 4328
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 24, 1989
Attachment:

PROPERTY NAME: Thorne property
OTHER NAMES: Sunnyside, Great Eastern (?)
MINING DISTRICT: Leonard
COUNTY: Mineral
MINERAL COMMODITY(IES): gold; tungsten
TYPE OF DEPOSIT: vein, skarn
QUAD SHEET: Big Kasock Mountain
OWNERSHIP:
SEC: 7 ,T: 13N ,R: 33E
North: 4320479 East: 299850
PRODUCTION: small
HISTORY: This area is probably the site of the old camp of Sunnyside
DEVELOPMENT: Prospect shaft, considerable bulldozer trenching on hill to east
GEOLOGY: Shaft sunk on N65E-striking, 75SE-dipping quartz vein in sheared, fine-grained granodiorite; vein has clots pyrite and hematite-after-pyrite, no scheelite visible under UV light. Cuts to east explore hornfels-granodiorite contact.
REMARKS: This working may be one of the old gold prospects related to the Sunnyside activity in the 1870's; tungsten prospecting covers the hill slope to the east.
SAMPLE SITE: 4327
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 24, 1989
Attachment:

PROPERTY NAME: Arentz shaft
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: replacement, vein
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 30 ,T: 14N ,R: 36E
North: 4321831 East: 416387
PRODUCTION:
HISTORY:
DEVELOPMENT: Shaft and cut on north end of San Rafael structure; shaft is inclined, about 20 feet deep, cut is up-slope to the SE
GEOLOGY: Workings are on N50-60W, 70 degree NE-trending vein/replacement zone in quartzite; zone has quartz vein material on both walls, center is fractured mass of iron-oxide-stained, replaced material-looks like pod of carbonate rock replaced by quartz and siderite(?), Some areas of cellular gossan, clots of massive galena. Replacement lense is about 10 feet wide at the shaft collar, prominent silicified rib crops out on SW side of the shaft, to the north, zone cuts N20E shear zone in quartzite. Bedding in quartzite is N40-60W, dip 70NE
REMARKS:
SAMPLE SITE: 4012
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 3, 1989
Attachment:

PROPERTY NAME: Barite prospect
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, barite
TYPE OF DEPOSIT: vein
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 1 ,T: 13N ,R: 36E
North: 4319299 East: 423564
PRODUCTION:
HISTORY:
DEVELOPMENT: Vertical shaft, 8x10x25 feet deep, with drift along structure from bottom of the shaft
GEOLOGY: Vein of massive white barite in sheared, kaolinized granite porphyry. Vein is near-vertical, strikes N85W, and is 6 inches to 1 foot wide; vein is lenticular, can't be seen at the shaft bottom or in a pit along strike to the southeast. Granitic wall rock is highly fractured and iron-oxide-stained. Fracture sets in the granite trend N20W,20SW; N20E, 60SW; N40E, vert. Vein occupies a shear zone that is about 4 feet wide.
REMARKS: Considerable bulldozer work was done in the area about 10-15 years ago, no signs of recent work
SAMPLE SITE: 4026
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 5, 1989
Attachment:

PROPERTY NAME: Desert group
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: replacement, vein
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 5 ,T: 13N ,R: 36E
North: 4318409 East: 418099
PRODUCTION:
HISTORY:
DEVELOPMENT: Three shafts, cuts
GEOLOGY: Northern-most shaft sunk on shear zone, cannot determine trend, rock on dump is copper-oxide-stained argillite and quartzite, central shaft is on N30-40E quartz vein, vein is brecciated, cemented with quartz, is gossany; In southern-most of three shafts, a N20-30W, 70 degree SW dipping shear zone is exposed; to the northeast, vein rolls to parallel bedding, measured at N20W, 50 NE dip; shear zone is about 4 feet wide, rubble is cemented with tan jasperoid with some gossan on fractures, trace copper-oxide staining
REMARKS:
SAMPLE SITE: 4014, 4015
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 3, 1989
Attachment:

PROPERTY NAME: Exchequer shaft
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: shear zone, breccia
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 30 ,T: 13N ,R: 36E
North: 4322080 East: 415607
PRODUCTION:
HISTORY:
DEVELOPMENT: Timbered vertical shaft, estimated to be 20-30 feet deep, pits and trenches
GEOLOGY: Shaft collared in kaolinized andesite, andesite is fractured with limonite flooding along the fractures, stockworks quartz veins cut rock. Andesite is brecciated and cemented by vein quartz, clear, acicular quartz crystals line vugs on vein walls, centers of vugs filled with pulverent, cinnamon-brown limonite. Exposures are poor and cannot tell vein trend, but shaft and pits line up along a N70E trend, cross-fractures trend N10 and 20W
REMARKS:
SAMPLE SITE: 4028
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 5, 1989
Attachment:

PROPERTY NAME: Hasbrouck mine
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: replacement, vein
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 31 ,T: 14N ,R: 36E
North: 4321216 East: 416661
PRODUCTION:
HISTORY:
DEVELOPMENT: Deep vertical shaft, timbered at collar, appears to be open as far as can be seen from the collar
GEOLOGY: Most of the rock on the dump is composed of sericitized granitic rock, lots of coarse-grained sericite on fracture surfaces, clots of chlorite in the rock, rock is iron-oxide-stained. No outcrops at the shaft.
REMARKS: New claim posts and flagging in the area, but no new excavation
SAMPLE SITE: 4013
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 3, 1989
Attachment:

PROPERTY NAME: Kernick shaft
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: replacement, vein
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 31 ,T: 14N ,R: 36E
North: 4320920 East: 416490
PRODUCTION:
HISTORY:
DEVELOPMENT: Vertical shaft, caving at collar-not approachable
GEOLOGY: Shaft did not penetrate volcanic rocks, no pre-Tertiary rocks on dump
REMARKS:
SAMPLE SITE:
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 3, 1989
Attachment:

PROPERTY NAME: Poor Boy claims
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: shear zone, replacement
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 35 ,T: 14N ,R: 36E
North: 4319912 East: 422247
PRODUCTION:
HISTORY:
DEVELOPMENT: Group of four prospect shafts
GEOLOGY: Shafts explore a lense of silicated limestone breccia/jasperoid that trends N70E, the lense is about 30 feet wide and extends for about 200 feet along strike across the top of a small hill. Faults, striking N15-20W and dipping 70 degrees NE cut the jasperoid mass on the east (faults are exposed in the two eastern shafts). Shaft dumps are composed of rubbly, siliceous gossan in jasperoid; outcrops are stained black from desert varnish. The westernmost shaft is in medium-grained intrusive rock; intrusive contact trends N30E, dips about 30 degrees SE, the intrusive is sheared and silicated. The silicated breccia mass is mainly jasperoid but contains patches of unreplaced carboate rock laced with calcite veinlets.
REMARKS: Drill road with rotary drill sites extends along the eastern slope of the hill
SAMPLE SITE: 4021
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 3, 1989
Attachment:

PROPERTY NAME: Silver Star claims
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: shear zone, replacement
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 2 ,T: 13N ,R: 36E
North: 4319736 East: 422603
PRODUCTION:
HISTORY:
DEVELOPMENT: Two vertical shafts, 30 feet apart, windlass frame over northern shaft, southern shaft caving at collar; a third vertical shaft is about 20 feet west of the northern shaft (these three shafts are all at the site of the western two symbols shown on the 7 1/2' topo map). The eastern symbols on the map are in an area of several cuts and trenches(?)
GEOLOGY: A pendant or lenticular mass of carbonate rocks, trending N70W, crops out in the area defined by the four shaft symbols on the topo map. Most of the carbonate has been replaced by silica and is now represented by an outcrop of flinty, iron-oxide-stained jasperoid. The rock is sheared along the N70W trend and the prospect shafts are aligned along the trend. Quartz is found on the dumps and masses may occur along both sheared boundaries of the limestone mass. The intrusive rock enclosing the pendant of limestone is a fine-grained porphyry, it is not well exposed. The quartz vein material on the dump contains clots, lenses, and crystalline sprays of freibergite-tetrahedrite with some fine-grained galena; considerable anglesite and some cerussite are present. The main gossan zone follows the N70W trend and is up to 10 feet wide
REMARKS: All of the shafts are caving at their collars, can't get close enough to check conditions below the collars. Considerable drilling has been done in the area between and east of the shafts on the flanks of the small hill, several rows of closly-spaced rotary holes on N-S lines
SAMPLE SITE: 4020
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 4, 1989
Attachment:

PROPERTY NAME: Tripod prospect
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: shear zone, replacement
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 4 ,T: 13N ,R: 36E
North: 4319972 East: 419637
PRODUCTION:
HISTORY:
DEVELOPMENT: Old tripod sinking headframe over an inclined/vertical prospect shaft. The vertical shaft is about 30 feet deep, directly below the headframe; the inclined shaft shares the same collar but extends to west beyond the vertical shaft. The inclined portion is also about 30 feet deep
GEOLOGY: The shafts are sunk in sheared, kaolinized, bleached meta-volcanic rock. The structure is not distinct but appears to be a N20W shear zone dipping about 30 to 40 degrees SW with a gossan zone along it. Knobby, siliceous outcrops to the northwest indicate a contact zone in that direction (granitic rocks to the northwest, greenstone to the southeast)
REMARKS:
SAMPLE SITE: 4018
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 4, 1989
Attachment:

PROPERTY NAME: Unnamed shaft 1
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: shear zone, replacement
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 2 ,T: 13N ,R: 36E
North: 4319823 East: 422446
PRODUCTION:
HISTORY:
DEVELOPMENT: Vertical shaft, caving at collar, estimated about 50 feet deep, shallow inclined shaft to SW of road, and several pits and cuts
GEOLOGY: Rock on the vertical shaft dump is mostly porphyrytic intrusive, kaolinized and silicified, an outcrop of dark grey carbonate rock crops out northeast of the shaft. A pit to the east exposes an E-W, 70 degree south dipping shear zone in the carbonate rock, gossan lense along the shear zone (mostly hematite and limonite). The shallow inclined shaft explores a lense of brecciated white quartz, possibly at a contact, the quartz lense is about 5 feet wide, strikes N10E, and dips 85 degrees NW, it rolls and flattens to W, may be more than one lense in distance of 20 feet; the lenses are composed of an angular rubble of white quartz cemented with quartz and tan jasperoid, some manganese oxide staining is present; some streaks of gossan along edges of the lenses are composed of cinnamon brown limonite. Rock exposures are poor but the quartz breccia may cut the intrusive, not be on a contact.
REMARKS: Four shallow, rotary holes have been drilled along a bulldozed area about 30 feet west of the inclined shaft. Work was done in last 5-10 years
SAMPLE SITE: 4019
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 4, 1989
Attachment:

PROPERTY NAME: Unnamed shaft 2
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): silver, lead
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 30 ,T: 14N ,R: 36E
North: 4322708 East: 416585
PRODUCTION:
HISTORY:
DEVELOPMENT: Vertical, timbered shaft, trenches
GEOLOGY: Shaft sunk on N60W, vertical shear zone in silicified rhyolite tuff, vuggy zone along the shear contains cellular gossan, acicular quartz crystals line the vugs, clots and kernels of galena occur in the gossan. Yellow-green oxide coatins are present, jarosite crystals line vugs. Vein material in the shear zone is brecciated, recemented, the zone is about 10 feet wide as exposed in a trench east of the shaft. The shear zone rolls to an east-west strike about 10 feet east of the shaft.
REMARKS:
SAMPLE SITE: 4025
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 4, 1989
Attachment:

PROPERTY NAME: Unnamed shaft 3
OTHER NAMES:
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 1 ,T: 13N ,R: 36E
North: 4318580 East: 424096
PRODUCTION:
HISTORY:
DEVELOPMENT: Inclined shaft, not timbered, roads, drill sites
GEOLOGY: Shaft sunk on N50-60W, 50 degree NE-dipping fault zone in kaolinized, brecciated granitic porphyry, zone is 10-15 feet wide, composed of soft, crushed rock stained pale yellow-brown. White vein quartz with red-brown gossan in cavities along vein found on shaft dump, some jasperoid with manganese-oxide staining. Some vein fragments contain galena clots and streaks, large clasts of calcite, vein fragments are up to 6 inches thick.
REMARKS: Roads and drill sites in shaft area are estimated to be 10-15 years old
SAMPLE SITE: 4027
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 5, 1989
Attachment:

PROPERTY NAME: West Mines Corp. property
OTHER NAMES: Dawn claims (1988), Gloria and Montezuma claims (1926)
MINING DISTRICT: Lodi
COUNTY: Nye
MINERAL COMMODITY(IES): lead, zinc, silver
TYPE OF DEPOSIT: shear zone, replacement
QUAD SHEET: Quartz Mountain
OWNERSHIP:
SEC: 4 ,T: 13N ,R: 36E
North: 4319933 East: 418871
PRODUCTION: unknown
HISTORY:
DEVELOPMENT: Deep vertical shaft on slope to the west; inclined shaft and cuts along the ridge to the east; vertical shaft is 2-compartment, timbered at the collar, a caving stope extends southeast from the shaft
GEOLOGY: Rock exposed near the main shaft is a fine-grained intrusive, possibly a border facies near a contact zone; rock is composed mainly of quartz, pods and lenses of greenstone occur near in the intrusive. Most of the intrusive outcrops lie to the south of the workings; other prospects to the southeast explore a shear zone and pendants of jasperoid gossan on the contact. The stope southeast of the shaft appears to follow a N60W, 70 degree southwest-dipping shear zone. The workings at the inclined shaft, on the ridge to the southeast of the main shaft are on
a N45E, 60 degree SE-dipping fault zone in sheared, silicified intrusive rock, the zone is about 4 inches wide and is composed of brecciated, siliceous gossan. Some quartz lenses, 3 to 4 inches thick, occur along the zone; they are vuggy, with gossan in the vugs. Minerals present are mainly hematite, specular hematite, and limonite. About 100 feet northeast of the inclined shaft, a cut exposes a N20E, 45 degree NW-dipping fault zone; sheared intrusive forms the footwall of the zone, siliceous gossan and jasperoid in greenstone forms the hanging wall. The intrusive rock is a medium-fine-grained granite/aplite with disseminated limonite.
REMARKS:
SAMPLE SITE: 4016, 4017
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 4, 1989
Attachment:

PROPERTY NAME: Jaime's Ridge deposit
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Silicified breccia
QUAD SHEET: Corey Peak
OWNERSHIP: Echo Bay Mining Co.
SEC: 1 ,T: 6N ,R: 28E
North: 4253036 East: 342680
PRODUCTION: Some, but the amount is not known
HISTORY: Drilled and mined within the last few years; currently, land is being reclaimed prior to closing this property north of the main Boralis Mine.
DEVELOPMENT: Open-pits and trenching.
GEOLOGY: Large area mined by open-pits and trucked to main mine south of Lucky Boy Pass road. Host rocks are highly altered volcanics that are in part silicified and brecciated.
REMARKS: Area being reclaimed just north of Lucky Pass road.
Cerro Duro deposit is located on the west slope of the hill about 1500 feet to the east
SAMPLE SITE: 3755
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-3-89
Attachment:

PROPERTY NAME: Jim Canyon prospect
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Powell Mountain
OWNERSHIP: Unknown
SEC: ,T: 6N ,R: 30E
North: 4245594 East: 356592
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft and adit
GEOLOGY: A N60 degrees E-striking, near vertical, 4-foot vein in a shear; hosted in granite is explored by a 40-foot shaft, a 200-foot adit, and drifts. The vein consists of quartz and silicified gouge. The sample was chipped from exposed portions of the vein.
REMARKS: Accessible, but remote.
SAMPLE SITE: 3751
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-2-89
Attachment:

PROPERTY NAME: Lucky Boy mine
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, lead, zinc, copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Lucky Boy
OWNERSHIP:
SEC: 19 ,T: 7N ,R: 30E
North: 4257979 East: 353674
PRODUCTION: $1,000,000 was reported between 1909 and 1911
HISTORY: Discovered by G. E. Pritchard while working on Lucky Boy Pass road in 1906.
DEVELOPMENT: Three shafts, one 950 feet deep; 6400 foot adit; and about 2 miles of other workings.
GEOLOGY: Main vein at the surface is 6 feet wide, bears N 85 degrees E, dips 65 degrees S, and is hosted in meta-limestones and greenstone. At depth, the fracture was determined to have occurred after the intrusion of granite and indiscriminately cuts limestone, granite and the contact. The hanging wall was generally granite while the footwall was meta-morphosed limestone. The ore occurred in small lenses and large shoots along irregular fractures near north contact with granodiorite and limestone and was closely related to branch veins. Some secondary enrichment occurred were copper and silver near the surface was taken into solution, carried downward along crushed veins and redeposited near galena and tetrahedrite.
REMARKS: No work in area for many years.
SAMPLE SITE: 3747
REFERENCES: Hill, J.M., 1915, Some Mining Districts in Northeastern California, and northern Nevada, USGS Bull 594 pp 153-154.
Vanderburg, W.D., 1937, Reconnaissance of Mining Districts in Mineral County, Nevada Information Circular. 1937, pp 35-38.
EXAMINER: Jack Quade
DATE VISITED: 6-1-89
Attachment:

PROPERTY NAME: Patrick claims
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Powell Mountain
OWNERSHIP: BLM NMC, Frank Deering, 180 G St., General Delivery, Hawthorne, NV 89415
SEC: ,T: 6N ,R: 30E
North: 4246475 East: 353912
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A single adit, mill site, and nearby spring development.
GEOLOGY: A 6-foot vein that bears N 70 degrees E, dips 30 N in granite is explored by a single, rather shallow, adit driven along the strike. Sample 3753 was chipped from exposed portions of the vein in the adit and consisted mostly quartz stringers.
REMARKS: Very poor access to almost none in the drainage leading up to the mine. Considerable masonary work that held a mill or living structure below the mine.
SAMPLE SITE: 3753
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-2-89
Attachment:

PROPERTY NAME: Section 12 gold prospects
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Veins
QUAD SHEET: Powell Mtn NE
OWNERSHIP: Unknown
SEC: 12 ,T: 6N ,R: 30E
North: 4250157 East: 361419
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Pits and shallow adit
GEOLOGY: There is an irregular network of small, iron-stained silica-rich veins cutting thin-bedded meta-sediments above a contact with granite. The veins are mostly silicified gouge with minor quartz stringers.
REMARKS: To the west of Highway 359; there are many more prospects than are shown on the map but most are shallow.
SAMPLE SITE: 3710
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-19-89
Attachment:

PROPERTY NAME: Section 12 shaft
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Powell Mtn NE
OWNERSHIP: Unknown
SEC: 12 ,T: 6N ,R: 30E
North: 4250517 East: 362029
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shafts and prospects
GEOLOGY: Shallow workings follow veins in dark, thin-bedded shales of the Esmeralda Formation. Most of the veins consist of silicified gouge and only minor quartz stringers.
REMARKS: Just east of highway 359.
SAMPLE SITE: 3709
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-19-89
Attachment:

PROPERTY NAME: Section 13 shaft and prospects
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Lucky Boy
OWNERSHIP: Unknown
SEC: 13 ,T: 7N ,R: 29E
North: 4257987 East: 351810
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shallow shaft and prospects
GEOLOGY: A shaft and a line of prospects follow a narrow vein in diorite. The vein strikes N 65 degrees W and is nearly vertical. Contact zone includes bedded limestone and shale in contact with two different granitic rocks, one a diorite and the other a granodiorite. Very little contact minerals are present and the skarn zone is limited.
REMARKS: No roads and very poor access.
SAMPLE SITE: 3749
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-2-89
Attachment:

PROPERTY NAME: Section 13 shafts and adits
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, lead
TYPE OF DEPOSIT: Fissure Vein
QUAD SHEET: Lucky Boy
OWNERSHIP: Unknown
SEC: 13 ,T: 7N ,R: 29E
North: 4257938 East: 353010
PRODUCTION: Unknown
HISTORY: From earliest days of the camp.
DEVELOPMENT: Several adits and large shafts.
GEOLOGY: Workings are along an irregular contact between granite and metamorphosed limestone. Ore from the main workings showed slickensides and breccia as well as crushed, silicified gouge.
REMARKS: Just off the main Lucky Boy Road. The workings were inaccessible and partially dozed at the surface. A large ore-bin was near the bottom of the main workings and near the road.
SAMPLE SITE: 3748
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-2-89
Attachment:

PROPERTY NAME: Section 21 adit and pits
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein in joint or shear
QUAD SHEET: Powell Mountain
OWNERSHIP: Unknown
SEC: 21 ,T: 6N ,R: 30E
North: 4246731 East: 356806
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Older workings subjected to dozing. Many new roads and cuts not on map.
GEOLOGY: Small prospect pits and adits follow vein in joint, or shear, hosted in granite. These workings and others have been almost destroyed by recent road building and road-cut in what appears as an exploration for unexposed veins in the gruss.
REMARKS: Most new work is within the last two years.
SAMPLE SITE: 3752
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-2-89
Attachment:

PROPERTY NAME: Section 28 open-pit
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Lucky Boy
OWNERSHIP: Unknown
SEC: 28 ,T: 7N ,R: 30E
North: 4256132 East: 356485
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Open-pit, older adits.
GEOLOGY: All of the workings are in shaly meta-sedimentary rocks that have been intruded by granite. The meta-sedimentary rocks are tan-colored, iron-stained and locally silicified along a crushed zone. Sample 3746 was taken from the silicified zone where it is exposed in the new open-pit.
REMARKS: At the mouth of Alum Canyon. Older workings are obliterated by open-pit.
SAMPLE SITE: 3746
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-1-89
Attachment:

PROPERTY NAME: Section 32 adits
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Lucky Boy
OWNERSHIP: Unknown
SEC: 32 ,T: 7N ,R: 30E
North: 4254401 East: 354937
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two adits and 5 prospects.
GEOLOGY: A N 45 degrees E-striking, 2-foot vein is one of a number of veins explored by a crosscut adit and one that follows the strike. The veins are hosted in a locally-weathered granite. The older workings have been partially dozed and additional structure has been opened along the strike to the south. The vein was sampled in the big adit and consisted of vuggy, iron-stained quartz with pyrite.
REMARKS: On the southside of Alum Canyon
SAMPLE SITE: 3745
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-1-89
Attachment:

PROPERTY NAME: Section 34 quartz quarry
OTHER NAMES:
MINING DISTRICT: Lucky Boy
COUNTY: Mineral
MINERAL COMMODITY(IES): quartz
TYPE OF DEPOSIT: Massive quartz segregation
QUAD SHEET: Lucky Boy
OWNERSHIP: Unknown
SEC: 34 ,T: 7N ,R: 29E
North: 4254246 East: 348507
PRODUCTION: Some but no records
HISTORY: Unknown
DEVELOPMENT: Older adits and trenches were followed by a much later quarrying operation with bench-blasting, and a mill sorting operation on the westside of the property.
GEOLOGY: Massive outcrop of quartz; geologic relationships not apparent.
REMARKS: Just south of Lucky Boy Pass. A mountain of quartz has been quarryed and stacked on the westside of mountain...with some crushing and stockpiling of 1/4-inch material near heap leach which has since been abandoned.
SAMPLE SITE: 3750
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-2-89
Attachment:

PROPERTY NAME: 4-D claims
OTHER NAMES:
MINING DISTRICT: Marietta
COUNTY: Mineral
MINERAL COMMODITY(IES): uranium (?)
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Little Huntoon V.
OWNERSHIP: Unknown
SEC: 11 ,T: 4N ,R: 32E
North: 4230116 East: 378095
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: Small shaft, and dozer cuts.
GEOLOGY: Very small shaft in granite explores quartz veins with minor copper and magnetite. Sample was taken from dump but I could not find the vein in the workings. There were dozer cuts along the strike of the vein but they do not expose the vein mineralization.
REMARKS:
SAMPLE SITE: 3577
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-19-89
Attachment:

PROPERTY NAME: Badger mine
OTHER NAMES: Woodchuck mine
MINING DISTRICT: Marietta
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, lead
TYPE OF DEPOSIT: Replacement vein
QUAD SHEET: Moho Mountain
OWNERSHIP: American Gold of Beatty, current lessor
SEC: 24 ,T: 5N ,R: 32E
North: 4237338 East: 380459
PRODUCTION: Total production estimated by Ross to be $75,000
HISTORY: Unknown but thought to be from the 1870 era.
DEVELOPMENT: One 300-ft. adit and numerous pits.
GEOLOGY: Main adit was driven on a 4-foot-thick, brecciated, dolomite-calcite vein in quartzite. The vein strikes N65 degrees W and dips 75 degrees NE. The primary ore is argentiferous galena with lessor amounts of copper sulfide and pyrite.
REMARKS: Recent road building and dozing above the old workings.
SAMPLE SITE: 3579
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-19-89
Attachment:

PROPERTY NAME: Iron prospect 1
OTHER NAMES:
MINING DISTRICT: Marietta
COUNTY: Mineral
MINERAL COMMODITY(IES): iron, copper (?)
TYPE OF DEPOSIT: skarn
QUAD SHEET: Little Huntoon V.
OWNERSHIP:
SEC: 17 ,T: 4N ,R: 32E
North: 4229360 East: 0372880
PRODUCTION: none
HISTORY: unknown
DEVELOPMENT: Old prospect shaft, about 20 feet deep; second shaft 10 feet upslope, now filled; new bulldozer cuts and trenches upslope about 200 feet and to south along north slope of the ridge. The southern cuts may be drill sites.
GEOLOGY: Lens of massive magnetite occurs in siliceous hornfels; hornfels contains lenses of epidote 1/4 to 2 in. thick along bedding. The rocks strike N45W and dip steeply to the SE. The magnetite lens is not well exposed but must be along bedding. Minor copper-oxide staining is present.
REMARKS: The bulldozer work and drill sites date from the 1970's
SAMPLE SITE: 3295
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: 9/22/88
Attachment:

PROPERTY NAME: Marietta mines
OTHER NAMES: Rutty Group
MINING DISTRICT: Marietta
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Moho Mountain
OWNERSHIP: Unknown
SEC: 31 ,T: 5N ,R: 33E
North: 4234311 East: 382244
PRODUCTION: Unknown but some.
HISTORY: Mining in this area began in the 1860's.
DEVELOPMENT: A cluster of shafts and adits a half mile north of Marietta.
GEOLOGY: Mining in this area was from veins in limestone and clastic rocks that were silicified, argillized and sericitized. Access to the mines is very limited but they were reported to have been mining in copper-bearing quartz-siderite veins. Ore from the dumps included copper oxides, pyrite and possible silver sulfides.
REMARKS:
SAMPLE SITE: 3580
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-19-89
Attachment:

PROPERTY NAME: Moho mine
OTHER NAMES:
MINING DISTRICT: Marietta
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, lead
TYPE OF DEPOSIT: Vein in shear
QUAD SHEET: Moho Mountain
OWNERSHIP: Unknown
SEC: ,T: 5N ,R: 33E
North: 4235599 East: 390267
PRODUCTION: Reported to be small
HISTORY: Discovered in 1903 and reported to have produced a small amount of gold-silver and lead.
DEVELOPMENT: One 1200 foot tunnel, several shorter ones and several shafts, deepest is 300 feet...about 3500 feet of total workings.
GEOLOGY: Main adit and line of adits further up the mountain follow a 5 foot vein on a N40 degree-45 degree E heading in metavolcanics of the Excelsior Formation. The vein is in a fault that shows movement since formation. Sample 3574 was chipped from the vein associated with the large lower adit. Sample 3575 was taken from the stock pile near the old mill and consists of silicified, brecciated tuff. The tuff is hydrothermally altered, bleached, strongly iron-stained, and oxidized.
REMARKS:
SAMPLE SITE: 3574, 3575
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-18-89
Attachment:

PROPERTY NAME: Silver Gulch mine
OTHER NAMES:
MINING DISTRICT: Marietta
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, lead
TYPE OF DEPOSIT: vein; replacement
QUAD SHEET: Moho Mountain
OWNERSHIP: American Gold, Beatty, Nevada
SEC: 24 ,T: 5N ,R: 32E
North: 4237388 East: 380798
PRODUCTION: Some but small
HISTORY: These are old mines that date from the 1860's.
DEVELOPMENT: Old workings consist of 3 adits totalling about 500 feet; newer work consists of a network of roads that cut the mountain about 10 times in a stair-step fashion, apparently looking for veins.
GEOLOGY: Older workings are along northeast-striking shears which are badly fractured and brecciated. Country rock is dark-gray chert and badly-fractured conglomerate of the Jurassic Dunlap formation.
REMARKS:
SAMPLE SITE: 3578
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-19-89
Attachment:

PROPERTY NAME: Coca Mines claims
OTHER NAMES:
MINING DISTRICT: Masonic
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein and breccia
QUAD SHEET: The Elbow
OWNERSHIP: Coca Mines Inc., 1776 Lincoln St., Denver, CO 81283
SEC: ,T: ,R:
North: 4253155  East: 314702
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit, prospects and cabins.
GEOLOGY: A caved adit follows a N 30 degrees E-striking, 4-6 foot wide shear in highly altered volcanics. The vein consists of highly oxidized, white, crushed silica and flint-hard breccia, quartz and gouge. Some of the ore appears to have been treated near a spring below the cabins.
REMARKS: The area is a maze of roads not on the map.
SAMPLE SITE: 4223
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-16-89
Attachment:

PROPERTY NAME: Gold Fund mine
OTHER NAMES:
MINING DISTRICT: Masonic
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: The Elbow
OWNERSHIP: Unknown
SEC: ,T: 6N ,R: 26E
North: 4249951 East: 316573
PRODUCTION: Unknown
HISTORY: Discovered in 1860 but not active until 1904 because of the interest in the big strike at Aurora. The rediscovery led to the development of the Pittsburg Liberty, the biggest producer in the camp. Activity until the 1940's.
DEVELOPMENT: The Gold Fund appears to have been a line of adits, a shaft, and prospects. Ore-bin and some stockpiled ore.
GEOLOGY: The workings explore a north-trending shear zone on a lavendar tuff that contains a silicified rhyolite breccia. Some of breccia has fine-grained pyrite in the matrix. Vuggy, limonite-stained quartz and secondary quartz are also present.
Recent drilling above the workings appears to be directed at the same vein system.
Sample 4221 was taken from dumps and the ore-bin.
REMARKS: Gold was discovered below this site in 1860 by a group of Masons, hence the name Masonic was given to the camp. The best mines seem to have been on the California side of the camp but considerable activity occurred in adjacent Nevada, although there are almost no records of the Nevada activity.
SAMPLE SITE: 4221
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-16-89
Attachment:

PROPERTY NAME: Hellman gold-copper prospect
OTHER NAMES: Homestead Mine
MINING DISTRICT: Masonic
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, copper, tungsten
TYPE OF DEPOSIT: skarn, vein
QUAD SHEET: Dome Hill
OWNERSHIP:
SEC: 24 ,T: 6N ,R: 26E
North: 4247800 East: 0322550
PRODUCTION: none
HISTORY: Originally located by W.J. Hefler about 1930, prospected for gold and copper between 1930-38, tungsten was discovered about 1953
DEVELOPMENT: Open cut, 20 feet by 30 feet by 10 feet deep at its north end, small winze, 10 feet deep on south end of pit. A large adit extends under the pit from creek level on the south; the adit is caved but a large dump indicates extensive workings
GEOLOGY: Copper minerals occur in a quartz lens or vein exposed in the south wall of the winze, vein strikes N50E, dips 85 degrees SE, is about 4 feet thick. The vein occurs in meta-andesite in a zone that is silicified and banded with white quartz. Iron-oxide gossan lenses with spots of green copper oxides, melaconite, kernels of bornite, chalcopyrite, pyrite occur with the quartz. The vein appears to be along a contact between meta-andesite and a silicated mica-hornfels. Samples of rock on the dump show gray and white mica schist laced with quartz veinlets and micro-aplite dikes. A light, coarse-grained granite crops out in the wash a few hundred feet southeast of the pit and the contact zone with this rock may lie beneath the pit. The meta-andesite of Triassic age, part of the Excelsior Formation.
REMARKS: This is the largest mine workings seen in the area; no trace of garnet skarn could be found, however, and unless garnet occurs in the caved adit beneath the pit (there is no trace of garnet on the adit dump) this is not the source of the scheelite-bearing garnet skarn seen at the old mill site down canyon to the east.
SAMPLE SITE: 3296
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: 9/23/88
Attachment:

PROPERTY NAME: Homestead Mine
OTHER NAMES: Hefler, Hilltop-Hillside
MINING DISTRICT: Masonic
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten, gold, copper
TYPE OF DEPOSIT: skarn, quartz vein
QUAD SHEET: Dome Hill
OWNERSHIP:
SEC: 24 ,T: 6N ,R: 26E
North: 4247300 East: 0322920
PRODUCTION: 7 units WO3 in 1953
HISTORY: Originally located by W.J. Hefler about 1930, prospected for gold and copper between 1930-38, tungsten was discovered about 1953.
DEVELOPMENT: Several shallow pits are found on the property and an adit extends under the copper-gold pit (Hellman prospect); the largest is found on the hilltop south of the Hellman workings and consists of a cut 8 feet wide, 8 feet deep, and 40 feet long.
GEOLOGY: Scheelite occurs as fine-grained crystals sparsely scattered throughout a massive to coarsly crystalline garnet-epidote skarn. Euhedral to subhedral garnet and epidote crystals occur with calcite and vitreous quartz. Very little copper mineralization is present in the garnet ore examined on the mill stockpile. Rocks cropping out in the area consist of greenish, meta-andesite, hornfels, and mica-schist of the Triassic Excelsior Formation; and aplite dikes and granodiorite, probably of Cretaceous age. The contact zone between these rocks was not observed, and no skarn was seen in outcrop or in pits or cuts. Copper mineralization occurs with a quartz-veined zone at the Hellman prospect and lenses of shattered quartz occur with iron-oxide gossan and copper minerals in silicified meta-andesite at the site of the 40-foot trench on the hill south of the Hellman. At the trench site, mineralization occurs along a N35E, 70-75 degree NW-dipping shear zone in meta-andesite and hornfels; epidote floods fractures along this zone. Only trace amounts of garnet skarn were seen here or in the dump from the cut.
REMARKS: Large piles of coarsely-crystalline garnet skarn are present at the old millsite on the property; nowhere could this material be found in outcrop or exposed in a pit face. The source could be from the caved adit at the Hellman prospect, from the pit on the south hill, or from some other now caved workings(?). The small, open-air mill at the site treated small amounts of tungsten ore as there are tailings present. A crusher, shaking table, small generator, and other un-useable equipment remain on the site.
SAMPLE SITE: 3297
REFERENCES: Stager and Tingley, 1988
EXAMINER: J. V. Tingley
DATE VISITED: 9/23/88
Attachment:

PROPERTY NAME: New gold-silver mine
OTHER NAMES:
MINING DISTRICT: Masonic
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: The Elbow
OWNERSHIP: Unknown
SEC: ,T: 6N ,R: 26E
North: 4250093 East: 315750
PRODUCTION: Unknown
HISTORY: An ongoing mining operation, new shaft, headframe, timbering and loading facilities, and completely outfitted camp.
DEVELOPMENT: A new shaft and prospects.
GEOLOGY: The new workings were sunk on a rhyolite outcrop adjacent to an older prospect. The outcrop is strongly silicified and partially brecciated. Many similar prospects are in the area and almost all of them are directed at these breccias.
REMARKS: No one present at the time of the visit. There are many new roads in area and numerous workings not on the map. The location of the mine as shown on my map is an approximation.
SAMPLE SITE: 4222
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-16-89
Attachment:

PROPERTY NAME: Section 6 adit
OTHER NAMES:
MINING DISTRICT: Masonic
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: The Elbow
OWNERSHIP: Unknown
SEC: 6 ,T: 6N ,R: 26E
North: 4253355 East: 314927
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adits, trenches and pits.
GEOLOGY: A knob, 300 feet in diameter, of completely-silicified, intensely-altered rhyolite with a strong east-west rib of chertified volcanics and other areas of selectively-silicified breccia have been prospected by shallow trenches and pits. Sample 4224 was a random sample of the breccia and silicified vein.
REMARKS: Area staked, but no paper seen.
SAMPLE SITE: 4224
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-16-89
Attachment:

PROPERTY NAME: Mound House mine
OTHER NAMES:
MINING DISTRICT: Mound House
COUNTY: Lyon
MINERAL COMMODITY(IES): gypsum
TYPE OF DEPOSIT: Bedded, Lens and Blanket
QUAD SHEET: New Empire
OWNERSHIP: Art Wilson & Co.
SEC: 25 ,T: 16N ,R: 20E
North: 4345101 East: 267765
PRODUCTION: Over $500,000 and currently in full production.
HISTORY: Discovered in 1914, actively mined between 1914 and 1920 currently shipping to the California market.
DEVELOPMENT: Open-pits and quarries.
GEOLOGY: A sedimentary section of limestone, gypsum, shales and meta-andesites has been intruded and slightly metamorphosed by granodiorite. The gypsum and limestone occur in a fault block reported to be about 3,000 feet long and 1,500 feet wide. A thick bed of gypsum dips steeply to the east and is interbedded with limestone. The bed is about 300 wide to the south but thins to a few feet 700 feet to the north. The gypsum is cut off by granodiorite to the south while a fault brings it in contact with meta-andesites to the east. To the west, the gypsum is in contact with and grades into limestone. At 300 feet deep the gypsum grades into anhydrite.
REMARKS: Just north of state Highway 50.
SAMPLE SITE: 3650
REFERENCES: Moore, J.G., 1969, Geology and mineral deposits of Lyon, Douglas and Ormsby Counties, Nevada, NBMG Bull 75. Jones, 1920, Gypsum deposits of the United States; USGS Bull 697.
EXAMINER: Jack Quade
DATE VISITED: 5-10-89
Attachment:

PROPERTY NAME: Bar Claim #1
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold(?) tungsten(?)
TYPE OF DEPOSIT: Fissure vein and contact mineral
QUAD SHEET: Butler Mountain
OWNERSHIP: Richard Harley, 121 Broadway, Yerington, NV
SEC: 17 ,T: 9N ,R: 28E
North: 4278625 East: 336646
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Older adit and open stopes with later dozing and drilling from above and to the south along the strike.
GEOLOGY: The older adit with its open-stopes followed a N75W 60E fissure which was roughly parallel to the adit to the west, but was hosted in granite. The fissure was about 4 feet wide and although it was closer to the contact with the metasediments there was very little skarn on the dumps. The workings seem to explore quartz within the fissure and lateral to the strike. So do the dozer-cuts above these workings and on strike with the structure.
REMARKS: Very near impassable roads to the area.
SAMPLE SITE: 4260
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Bar claims adit
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Butler Mountain
OWNERSHIP: Richard Harley, 121 Broadway, Yerington, NV
SEC: 17 ,T: 9N ,R: 28E
North: 4278599 East: 336488
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: An adit, open stopes, prospect-pits and later dozing.
GEOLOGY: A three-foot fissure vein in dark gray, thin, platy, meta-sediments is explored by an adit bearing S 70 degrees E. The sediments are within 100 feet of a granite contact on the surface to the east. Within the fissure are quartz stringers, silicified gouge and silicified lithic fragments, some of which are rounded as in a conglomerate.
REMARKS: Above the adit is a maze of roads dozer-cut and drilled pads. Most of the activity which is at least ten years old was directed at the small hill that these workings occupy. Other dozer work extends to the south along the strike. Roads to this area are very near impassable.
SAMPLE SITE: 4259
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Big Indian mine
OTHER NAMES: Old Injun mine
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, lead, copper
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Corey Peak
OWNERSHIP: Julia Ward, Reno, NV
SEC: 7 ,T: 7N ,R: 29E
North: 4261133 East: 343832
PRODUCTION: Early and later production totalled about $180,000
HISTORY: Area first worked in the 1870's and later in the 1930's; mine has been idle since 1936.
DEVELOPMENT: The workings were reported to have consisted of 16 tunnels and one shaft; 2 tunnels on Spanish Vein, 6 on Old Injun Vein, 6 tunnels on the Altogether Vein, 2 tunnels on the North Star Vein and one 50 foot incline. Tunnels rangedfrom 35 to 850 foot.
GEOLOGY: The workings are along four distinct, nearly parrallel, east-west veins in granodiorite. Small ore bodies are reported to have occurred in E-W fault fissures filled with limonite, talc, and quartz. The Spanish, Old Injun and Altogether veins dip to the south while the North Star vein dips to the north and was reported to be of different character in that it carries sulfide values of silver in galena.
The Spanish vein crops out on the crest of Big Indian Mountain. Old Injun vein crops on the south side of the mountain near the crest while the Altogether Vein crops on the north side of some prominent granite cliffs about half way down the south side of the mountain.
REMARKS:
SAMPLE SITE: 4204, 4205
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-14-89
Attachment:

PROPERTY NAME: Grant Mountain gold mine
OTHER NAMES: Murray placer mine
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Placer
QUAD SHEET: Mount Grant
OWNERSHIP: C. B. Murray and Associates, Reno, NV
SEC: 22 ,T: 8N ,R: 28E
North: 4267115 East: 340335
PRODUCTION: Reported to have been $8,000 from 1933-1935.
HISTORY: Discovered in 1906 and worked intermittently since. Although there was almost no end of equipment scattered along the canyon none was active at the time of the visit.
DEVELOPMENT: Trenching along the drainage and near the mouth of the Lapon Canyon. Further up the drainage, dozing and road building appears to have been done in search of the source or sources for the gold. higher in the drainage and near the top of the range is a small basin called Lapon Meadows which was also worked by placer mining.
GEOLOGY: The upper drainage is characterized by prospects along veins in deeply weathered granite. Several of these were randomly sampled.
According to Vanerburg, (1937), Lapon (Laphan) Meadcws was the site of the first and major placer activity. "The gold occurred in a channel that averages about 40 feet in width and 9 feet in depth. The bedrock is decomposed granite, and the best values occurred on and in granite. The alluvium is mainly a black loam with no large boulders. The gold was fairly coarse and shows abrasion. The fineness averaged 898." He also suggested that the gold probably was derived from a series of gash veins in granite.
REMARKS: At the time of the visit the meadows was being used for pasturing cattle and was fenced off. A small cabin and settling ponds along with grassed over placer mounds are all that remains of the placer activities. The water for the ponds is supplied by a number of springs at the head of the meadow.
The main road passes just to the east of the meadow. According to MRDS date the Eureka Mine should have been near the same area as Sample 4249, but I was not able to locate it on the ground.
SAMPLE SITE: 4249
REFERENCES: Ross, 1961, Geology and mineral deposits of Mineral County, Nevada, NBMG Bull. 58. Vanderburg, 1937, Reconnaissance of mining districts in Mineral County, Nevada, USBM I.C. 6941.
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 11 prospect
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Lucky Boy
OWNERSHIP:
SEC: 11 ,T: 7N ,R: 29E
North: 4260868 East: 349947
PRODUCTION: Unknown
HISTORY: Mines in this area date from the 1870's
DEVELOPMENT: A line of shallow, caved adits.
GEOLOGY: The line of caved shallow adits follow a N80 degree E heading exploring minor quartz veins in granite. Locally the granite is deeply weathered, forming areas of deep gruss. Vein quartz seen on dump is iron-stained and vuggy.
REMARKS: Corey Canyon is closed to entry because it is the water shed from which Hawthorne derives its drinking water, and they want to protect their wells from contamination. Entrance to the canyon can be arranged through the Hawthorne Utility at 395 E. Street in Hawthorne between 8am - 4:30 pm.
SAMPLE SITE: 4201
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-14-89
Attachment:

PROPERTY NAME: Section 13 shaft and prospect
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Copper Canyon
OWNERSHIP: Unknown.
SEC: 13 ,T: 9N ,R: 28E
North: 4278839 East: 343854
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: Shallow shaft and prospect
GEOLOGY: The workings consist of a shallow shaft and prospect on a N 45 degrees - 50 degrees W 75 degrees SW, 2-foot, iron-stained, silicified vein hosted in granodiorite.
REMARKS: There is no road to the site which is about 100 feet above the Copper Canyon road on the south side of canyon.
SAMPLE SITE: 4243
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 14 adit
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Mount Grant
OWNERSHIP: Unknown.
SEC: 14 ,T: 8N ,R: 28E
North: 4268197 East: 341517
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A caved adit and a line of shallow prospects
GEOLOGY: A small caved adit and prospects follow a N 75 degrees E-striking near vertical, quartz vein that, in places, exceeds twenty feet in thickness. In places, the vein is entirely brecciated and contains fine-grained pyrite and copper oxides and sulfides. The workings are very near a contact between metavolcanics and granite.
REMARKS: The workings are just east of the Copper Canyon road. All of the workings coming up the canyon appear to have come from the same period and may date from the 1930's.
SAMPLE SITE: 4248
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 14 inclines and adit
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Copper Canyon
OWNERSHIP: Unknown.
SEC: 14 ,T: 9N ,R: 28E
North: 4278053 East: 341842
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A 50-foot incline, a lower cross-cut adit and prospects along the strike of the vein. A small building and what may be the remnants of a small loading facility.
GEOLOGY: The incline follows the dip-slope of vein as do the prospects. The size of the open space and dumps suggest that most of the material was removed through the lower adit. The vein averages about two feet thick, bears N 5 degrees E and consists of silicified gouge and quartz. The host is weathered granite.
REMARKS: The workings and building are just off the Copper Canyon road.
SAMPLE SITE: 4244
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 14 prospects
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Mount Grant
OWNERSHIP: Unknown
SEC: 14 ,T: 8N ,R: 28E
North: 4268253 East: 340523
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: A line of prospects
GEOLOGY: The prospect sampled was one of three separate workings on a hydrothermally-altered, 2-foot, limonite stained, vuggy quartz vein in granodiorite, striking N 20 degrees E.
REMARKS: Just to the north of this site the road has been dozed shut, cutting off access to an area of rather intense, older mining activity.
SAMPLE SITE: 4250
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 14 shafts and adits
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Butler Mountain
OWNERSHIP: Unknown
SEC: 14 ,T: 7N ,R: 27E
North: 4278208 East: 332270
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Three shafts, 3 adits and many prospects
GEOLOGY: The main adit follows a 18-inch, nearly-vertical, north-trending, massive white quartz vein in weathered granite. The dumps are covered by quartz most without visible mineralization except minor copper staining and pyrite. Veins associated with other workings in the area are similar but smaller.
REMARKS: Only access to this area is via the pole line road from the north or south.
SAMPLE SITE: 4261
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Section 18 open-cuts and pit
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Mount Grant
OWNERSHIP: Unknown
SEC: 18 ,T: 8N ,R: 29E
North: 4268219 East: 343803
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Old workings have been dozed to extinction leaving large open-cut and pits along the south side of Mt. Grant. Some older workings remain to the east and further down the mountain.
GEOLOGY: The older workings were driven on shear zones filled with quartz and breccia veins hosted in a lavendar ash-flow tuff. Some of the veins have fine-grained pyrite, others have minor copper shows. All of the veins contain iron-oxides.
REMARKS: Much of the equipment, including compressors, are still on the mountain; looks to have been there for many years.
SAMPLE SITE: 4253
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 19 adit
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Mount Grant
OWNERSHIP: Unknown
SEC: 19 ,T: 8N ,R: 28E
North: 4266793 East: 343637
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: An adit with other prospects locally.
GEOLOGY: A caved adit follows the S 70 degrees E strike of an altered, iron-stained shear zone with silicified gouge and quartz stringers, about 2-feet wide and hosted in metavolcanics. Similar prospects dot the landscape in about a half mile radius, none big enough to be called a mine but most of those are hosted in granites.
REMARKS: These workings are about a mile east of the main road near the site of a small cabin adjacent to a flowing creek and spring.
SAMPLE SITE: 4251
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 2 adits
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Mount Grant
OWNERSHIP: Unknown.
SEC: 2 ,T: 8N ,R: 28E
North: 4272343 East: 340956
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two adits and prospects
GEOLOGY: One of the two adits was driven along the strike of the vein from the northeast while the other cross-cuts the vein from below. All of the workings are caved. The N 20 degrees W vein is hosted in metavolcanics. Silicified gouge and quartz vein material was seen on stockpiles on the dumps.
REMARKS: The workings are just west of the Copper Canyon road.
SAMPLE SITE: 4246
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 2 adits and prospects
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Mount Grant
OWNERSHIP: Unknown.
SEC: 2 ,T: 8N ,R: 28E
North: 4271420 East: 341182
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Caved adits and open prospects
GEOLOGY: Caved adits and a line of prospects follow a N 15 degrees W heading on a fissure vein in metavolcanics. Quartz vein and silicified gouge was sampled from the dumps and open workings.
REMARKS: Cabin across the road is adjacent to a spring and the Copper Canyon road.
SAMPLE SITE: 4247
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 24 prospect shaft
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Butler Mountain
OWNERSHIP: Unknown
SEC: 24 ,T: 9N ,R: 27E
North: 4277446 East: 332850
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A shaft.
GEOLOGY: Shallow shaft was sunk on due-north-striking structure in deeply weathered granite. Zone is about 3 feet wide and contains quartz stringers.
REMARKS:
SAMPLE SITE: 4262
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Section 24 shaft
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Mount Grant
OWNERSHIP: Unknown
SEC: 24 ,T: 8N ,R: 28E
North: 4266988 East: 343171
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A single shaft and prospects
GEOLOGY: A shaft and prospects expose a 4-foot, roughly east-west striking fissure vein in whitish-tan, hydrothermally-altered metasediments. The mineralization is restricted to quartz stringers in silicified gouge and consists of copper oxides and sulfides with possible gold.
REMARKS: The road was built to the east of the main north-south road to work these properties. These workings may have produced some ore but they do not fit any of the known property descriptions.
SAMPLE SITE: 4252
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 24 shafts
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Butler Mountain
OWNERSHIP: Unknown
SEC: 24 ,T: 9N ,R: 27E
North: 4277279 East: 332735
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two shafts and prospects
GEOLOGY: Several very old shafts along a N 15 degrees E-striking, 80 degrees S-dipping, 5-foot wide shear hosted in granite of Cretaceous age. The dumps are almost barren of vein material and the shear seems to contain more crushed white silicified wall rock than quartz.
REMARKS:
SAMPLE SITE: 4263
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Section 31 adits and shaft
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold(?)
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Mitchell Spring
OWNERSHIP: Unknown
SEC: 31 ,T: 9N ,R: 28E
North: 4273714 East: 334983
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Three shafts, two adits and six pits.
GEOLOGY: The old workings follow a 12- to 16-inch-wide shear zone containing iron-oxide-stained quartz stringers.
REMARKS: Located about a mile and one-half east of the pole line road. None of the shafts exceed fifty feet in depth but the caved adits are longer than that and some have open-stopes. It's clear that they actually shipped some of the ore but details are not known. None of the workings on the Mitchell Spring or Butler Mountain 7-1/2 quads are within the military withdrawal area.
SAMPLE SITE: 4265
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Section 32 prospects
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Corey Peak
OWNERSHIP: Unknown
SEC: 32 ,T: 7N ,R: 29E
North: 4262483 East: 345214
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: These prospects were adjacent to a mill site and spring that had some crushing facilities, boiler furnace, living quarters and milling equipment. Charcoal and metal gears are scattered around the general area. Pipes redirecting water from the spring were also present.
GEOLOGY: The prospects (some of which may have been shallow underground workings), were on quartz veins in granite.
REMARKS: The old boiler stove is still intact. Should be bought and moved to an area where it can be preserved.
SAMPLE SITE: 4255
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 34/35 adit
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Mount Grant
OWNERSHIP: Unknown.
SEC: 34 ,T: 9N ,R: 28E
North: 4273808 East: 340574
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: An adit and nearby prospects
GEOLOGY: The adit was driven on a S 50 degrees W heading along the strike of and iron-stained and silicified zone in rhyolite. The narrow workings produced very little vein material.
REMARKS: The workings are just west of the Copper Canyon road.
SAMPLE SITE: 4245
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 36 prospects
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Mount Grant
OWNERSHIP: Unknown
SEC: 36 ,T: 8N ,R: 28E
North: 4263352 East: 342735
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A line of prospect pits
GEOLOGY: A line of prospect pits explore narrow quartz veins in granite. This particular prospect follows a N 65 degrees W-striking, 70 degrees NE-dipping quartz vein in what may be a shear or joint in the granite. Alteration along the vein appears to be in pockets and extends into adjacent wall rock several feet on both sides of the structure.
These and neighboring veins could be considered as source rocks for the placer mineralization further down the drainage at Lapoon Meadows.
REMARKS: The prospect is less than 300 feet to the east of the main road.
SAMPLE SITE: 4257
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 6 adit
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Corey Peak
OWNERSHIP: Unknown
SEC: 6 ,T: 7N ,R: 29E
North: 4261826 East: 345072
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A 50-foot-long, partially caved adit and prospects along the strike of the vein.
GEOLOGY: The workings follow a N55W, near-vertical, 3-foot-wide iron-stained shear with mineralized stringers of quartz in a granite host.
REMARKS: There are many similar prospects in this general area which increase in frequency as you get closer to the Old Injun mine to the west.
SAMPLE SITE: 4254
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 6 prospects and adit
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Corey Peak
OWNERSHIP: Unknown
SEC: 6 ,T: 7N ,R: 29E
North: 4261815 East: 344016
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A line of prospects including an adit.
GEOLOGY: The workings follow an iron-stained quartz vein and quartz breccia. The 2-foot-wide vein bears N60W, dips 65SW, and is exposed for a distance of 200+ feet along its strike. The granite host is altered to a punky, yellowish argillic mass along both sides of the vein. Within the matrix of the breccia, the silica is stained with a reddish, ferric iron while the open spaces of the quartz stringers are commonly filled with limonite.
REMARKS: All of the exploration in the area is directed at gold in quartz veins.
SAMPLE SITE: 4256
REFERENCES: Ross, 1961, Geology and mineral deposits of Mineral County, Nevada; NBMG Bull. 58.
EXAMINER: Jack Quade
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Section 7 adit
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz Vein
QUAD SHEET: Corey Peak
OWNERSHIP: Unknown
SEC: 7 ,T: 7N ,R: 29E
North: 4259894 East: 344584
PRODUCTION: May have been some as local mill has tailings.
HISTORY: These mines date from the 1870's.
DEVELOPMENT: A large adit with dump that is completely overgrown and not shown on the map. Some upper workings are shown as a prospect.
GEOLOGY: The adit is caved but looks to have cross-cut the vein explored by the small upper prospect. There is no vein exposure at the entrance to the adit but there is quartz vein with sulfides on the dumps. The host rock for the veins is a deeply weathered granite.
REMARKS: Some ore appears to have been processed in the small mill to the north.
SAMPLE SITE: 4202
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-14-89
Attachment:

PROPERTY NAME: Section 7 shaft and mill site
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins along shears
QUAD SHEET: Corey Peak
OWNERSHIP: Unknown
SEC: 7 ,T: 7N ,R: 29E
North: 4259998 East: 344632
PRODUCTION: Some, but small
HISTORY: Area was being mined in the 1870's.
DEVELOPMENT: A shaft, a cistern, a wooden ore shoot (no longer standing), a small mill site, and tailings.
GEOLOGY: The shaft was sunk on a east-west trending 4- to 5-foot thick fissure vein with crushed silicified gouge. The quartz vein and quartz stringers occur in deeply weathered granite.
REMARKS: Slightly below the shaft is a rectangular stone and plaster lined cistern, which provided water to a small mill about 150 feet further down the hill. The mineralized white quartz vein material and gouge was transported down the hill from shaft via a wooden ore shoot, that may have been helped in part by water from the cistern? At the mill site the ore was crushed and apparently washed before being transported to a lower tailings pile.
SAMPLE SITE: 4203
REFERENCES: The adjacent adit at the bottom of the hill may have also contributed ore to the mill?
EXAMINER: Jack Quade
DATE VISITED: 6-14-89
Attachment:

PROPERTY NAME: SW Section 31 shaft and adit
OTHER NAMES:
MINING DISTRICT: Mount Grant
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Mitchell Spring
OWNERSHIP: Unknown
SEC: 31 ,T: 9N ,R: 28E
North: 4273257 East: 334689
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit, shaft and prospects
GEOLOGY: A line of very old workings includes a sizable shaft and adit and four or five prospects along a N 45 degrees E, one-foot shear in granite. The shear zone contains copper oxide and sulfide mineralization in a quartz stringer.
REMARKS: Approximately one mile east of the pole-line road, which is the only access to these areas, on the west side of the Mount Grant district.
SAMPLE SITE: 4264
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Buckley Mining claim
OTHER NAMES:
MINING DISTRICT: Mount Montgomery
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Mount Montgomery
OWNERSHIP: Buckley Mining Co., P.O. Box 942, Benton, CA 93512
SEC: 35 ,T: 1N ,R: 32E
North: 4196007 East: 379488
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two adits and open stopes.
GEOLOGY: Several old, partially caved adits and at least two open-stopes, expose a N 60 degrees E-striking, vertically dipping, 2- to 3-foot, iron-stained, highly-oxidized vein, in completely altered, fine-grained meta-sediments above a granite contact.
REMARKS: Workings not on the map.
SAMPLE SITE: 3737
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: Houndog claims
OTHER NAMES:
MINING DISTRICT: Mount Montgomery
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Mount Montgomery
OWNERSHIP: Ken Palosky, 1972
SEC: 12 ,T: 1N ,R: 32E
North: 4202730 East: 380096
PRODUCTION: Unknown
HISTORY: Unknown, but there has been extensive road building and drilling within the last two years.
DEVELOPMENT: Old shaft and adits with modern roads and drilling.
GEOLOGY: Large prospect is opened by a dozer-cut which exposes a 20- to 30-foot-thick, east-west vein of quartz breccia. The vein was used as a location for a discovery monument erected by Ken Palosky. The vein can be traced for several hundred yards to the east; host rocks are mainly altered volcanics.
REMARKS: New roads and drilling pads not shown on the map.
SAMPLE SITE: 3740
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: Indian Queen Mill Site claim
OTHER NAMES: Lucky Susan(?)
MINING DISTRICT: Mount Montgomery
COUNTY: Mineral
MINERAL COMMODITY(IES): pegmatite
TYPE OF DEPOSIT: Alluvial
QUAD SHEET: Truman Meadows
OWNERSHIP: Gold Spar Mining Co., P.O. Box 276, Delta, Utah 84624
SEC: 26 ,T: 1N ,R: 32E
North: 4196355 East: 378679
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A shaft
GEOLOGY: Old shaft, mostly in alluvium, may have bottomed in pegmatite which covers the top of the dump. If this was the Lucky Susan as described in the MRDS file, I did not observe any uranium minerals although the pegmatite material was sampled for what may be Uraninite.
REMARKS:
SAMPLE SITE: 3738
REFERENCES: Described in MRDS file
EXAMINER: Jack Quade
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: Moonlight-Silver Moon claims
OTHER NAMES:
MINING DISTRICT: Mount Montgomery
COUNTY: Mineral
MINERAL COMMODITY(IES): gold (?)
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Mount Montgomery
OWNERSHIP:
SEC: 9 ,T: 1N ,R: 33E
North: 4201300 East: 385120
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Several pits and trenches over about 1/2 mile distance along structure
GEOLOGY: Opalite occurs along N70E , bleached, silicified shear zone; area is roughly on trend of the N30E shear zone seen at the Wild Rose mercury mine. Wall rock is a bleached volcanic; zone resembles fossil hot spring system. Up to 3 inch thicknesses of chalcedonic silica occur along structure, is vuggy and laced with quartz veinlets, some disseminated pyrite. In places, rock appears to have brecciated and recemented with silica.
REMARKS:
SAMPLE SITE: 1240
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: 8/14/82
Attachment:

PROPERTY NAME: Panorama claim
OTHER NAMES:
MINING DISTRICT: Mount Montgomery
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten; gold (?)
TYPE OF DEPOSIT: skarn; vein
QUAD SHEET: Mount Montgomery
OWNERSHIP: Unknown
SEC: 11 ,T: 1N ,R: 32E
North: 4202069 East: 379755
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Large adit and loading facility, upper workings, and prospects.
GEOLOGY: A single, major adit crosscuts a large fissure vein in hornblende andesite near contact of limestone and granite. Garnet skarn was found on dumps and in loading bin. Only minor tungsten was observed. It appears that mining of quartz vein material was also important.
REMARKS:
SAMPLE SITE: 3739
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: Section 35 shaft and adit
OTHER NAMES:
MINING DISTRICT: Mount Montgomery
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Mount Montgomery
OWNERSHIP: Unknown
SEC: 35 ,T: 1N ,R: 32E
North: 4195698 East: 379683
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft and adit
GEOLOGY: A 4-foot-wide, N 70 degrees W-striking oxidized, iron-stained vein in decomposed granite was sunk on by a shaft and followed along the strike by an adit. The adit splits several times following the strike of the vein as it turns to the north. The exposed vein is dominately silicified gouge with minor quartz stringers. Fifty feet to the north of the adit, limestone is in contact with a dark-gray, aphanitic dike; no skarn or contact mineralization was observed at the contact.
REMARKS: A number of prospects along the drainage to the workings, but not shown on the map had similar deposits.
SAMPLE SITE: 3736
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: Vol claims (north)
OTHER NAMES: Houndog claims
MINING DISTRICT: Mount Montgomery
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Mount Montgomery
OWNERSHIP: Ken Palosky (1972); Calcan Resources, 1419 Rocking Way Dr., Bishop CA 93514 (1987)
SEC: 1 ,T: 1N ,R: 32E
North: 4203595 East: 380292
PRODUCTION: Unknown
HISTORY: Unknown but older workings have been partly obliterated by new roads and drill sites.
DEVELOPMENT: Old adits and prospects.
GEOLOGY: Small shaft was sunk on a 10-foot vein bearing N 75 degrees E, dipping close to vertical, hosted in rhyolite tuff. Vein consists of a chertified rhyolite breccia with a matrix of fine-grained pyrite. Sample 3741 was taken from the exposed vein. From a cross cutting adit near the other end of the vein, a second sample was taken. Here, the vein was highly-silicified breccia containing fine-grained pyrite. A drill hole was sunk on the eastern-most strike of the vein, just beyond the second sample site.
REMARKS: Many of the old workings and recent drill sites are not on the map.
SAMPLE SITE: 3741, 3742
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-1-89
Attachment:

PROPERTY NAME: Vol claims (south)
OTHER NAMES:
MINING DISTRICT: Mount Montgomery
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Truman Meadows
OWNERSHIP: Calcan Resources, 1419 Rocking Way Dr., Bishop, CA 93514
SEC: 2 ,T: 1N ,R: 32E
North: 4202834 East: 378860
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Several adits, one decline, and numerous prospects.
GEOLOGY: The lower-most adit in a string of adits strikes N 55 degrees E across a 2-foot calcite vein attached to the hanging wall side of an altered andesite. From these workings and extending down the hill, is a flume-like ore shoot leading to a small shed used as a mill. The upper workings follow the same vein system, only at a N 60 degrees E direction, where the vein has widened to 4 feet and is stoped to the surface. At the upper site, the andesite is more fine-grained and altered to a dark-green.
REMARKS: No roads to the site. Sample 3744 was taken from the open stope associated with the upper workings.
SAMPLE SITE: 3743, 3744
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-1-89
Attachment:

PROPERTY NAME: Last Dollar claim
OTHER NAMES:
MINING DISTRICT: Mountain House
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Double Spring
OWNERSHIP:
SEC: 29 ,T: 11N ,R: 22E
North: 4295607 East: 279716
PRODUCTION: none
HISTORY: unknown, notice on claim dates from 1920's
DEVELOPMENT: two small prospect pits on gossan outcrop
GEOLOGY: Outcrop of banded metasedimentary rock, hornfels and weak skarn, with gossan lenses and clots along bedding planes. The rocks strike N40W, dip 54 degrees west. Outcrop is about 2-feet wide and is covered by colluvium along strike. Lenses of gossan have formed from original magnetite. Lenses of carbonate rock have been converted to weak skarn, strings of pale amber garnet occur along bedding planes in the skarn along with some white vein quartz. Some of the garnet is zoned. Skarn crops out at the upper prospect, massive gossan in metavolcanic rock crops out at the lower prospect.
REMARKS: Sample 4058 from lower prospect, 4059 from upper
SAMPLE SITE: 4058, 4059
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: June 13, 1989
Attachment:

PROPERTY NAME: Section 17 incline and prospects
OTHER NAMES:
MINING DISTRICT: Mountain House
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Topaz Lake
OWNERSHIP: Unknown
SEC: 17 ,T: 10N ,R: 22E
North: 4289730 East: 278798
PRODUCTION: Unknown
HISTORY: Older workings that were later dozed and trenched.
DEVELOPMENT: Incline, prospects and trenches.
GEOLOGY: A N 35 degrees W-striking vein and structure in meta-sediments was prospected by workings along the strike and across the structure as well as down the 60 degrees SE dip by the incline. The oxidized, limonite-stained vein is cut by a second vein bearing east, possibly a rhyolite intrusive. The highly silicified vein contains visible arsenopyrite, pyrite, and galena.
REMARKS:
SAMPLE SITE: 4430
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Section 34 adit
OTHER NAMES:
MINING DISTRICT: Mountain House
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Topaz Lake
OWNERSHIP: Unknown
SEC: 34 ,T: 10N ,R: 22E
North: 4285486 East: 281719
PRODUCTION: Unknown; there is a mill site and tailings at the bottom of hill.
HISTORY: Unknown
DEVELOPMENT: Very old adit; no road and greatly restricted access.
GEOLOGY: Southward-driven adit undercuts an outcrop of vuggy, limonite-stained quartz hosted in meta-volcanics. Other similar prospects occur in metasediments in the vicinity of the mill.
REMARKS: Access is limited by a hunting and fishing club and by the Park Service handling camping at Topaz Lake
SAMPLE SITE: 4435
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Section 7 adit
OTHER NAMES:
MINING DISTRICT: Mountain House
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Topaz Lake
OWNERSHIP: Unknown
SEC: 7 ,T: 10N ,R: 22E
North: 4290701 East: 278227
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A caved adit
GEOLOGY: A small caved adit follows the strike of a second but sub-parallel vein to the vein described at sample site 4431 but about 300 feet further to the east. Both veins are in the same metasedimentary sequence. The vein is strongly brecciated, silicified and strongly coated with ferric (red) iron.
REMARKS: No roads to either site; Sample 4432 was taken from the dump.
SAMPLE SITE: 4432
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Section 7 adits and incline
OTHER NAMES:
MINING DISTRICT: Mountain House
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Topaz Lake
OWNERSHIP: Unknown
SEC: 7 ,T: 10N ,R: 22E
North: 4290576 East: 278043
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit, incline and prospects
GEOLOGY: A fissure vein striking N 5 degrees E and dipping 75 degrees NW was sunk on by an upper incline and intercepted 75 feet down the mountain by an east-driven cross-cut adit. The workings are hosted in gray, fine-grained metasediments.
REMARKS: Sample was taken from exposed vein and dump and consisted of quartz without visible mineralization.
SAMPLE SITE: 4431
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Willard McDonald mine
OTHER NAMES:
MINING DISTRICT: Mountain House
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: Topaz Lake
OWNERSHIP: Unknown
SEC: 8 ,T: 10N ,R: 22E
North: 4291432 East: 278476
PRODUCTION: Thought to be $6,500 prior to 1940
HISTORY: Unknown
DEVELOPMENT: Four caved adits, prospects, road from west almost impassable.
GEOLOGY: Four large caved adits follow the N 50 E strike of a vein system in meta-sediments of Jurassic-Triassic age. The adits are stacked one above the other at 50 to 75 foot intervals along the strike of the vein. The ore consists of quartz and a highly silicified, dark-gray breccia. The dark-gray matrix is composed of sulfides most of which appear to be pyrite. Some of this ore appeared at a mill-site at the bottom of the mountain. Sample 4433 was randomly taken from these dumps. A vein running close to due east and dipping northward crosses the main vein system between the 3 and 4 adits. The vein is vuggy, limonite-stained and was exposed by a prospect that followed the vein for close to 50 feet. Sample 4434 was taken from the exposed cross-cutting vein.
REMARKS:
SAMPLE SITE: 4433, 4434
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Big Twenty mine
OTHER NAMES:
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: Hussman Spring
OWNERSHIP: Unknown
SEC: ,T: 13N ,R: 27E
North: 4315150 East: 332302
PRODUCTION: $4500 reported in 1909.
HISTORY: Discovered in 1904 by William Wilson, with first production reported to be in 1904.
DEVELOPMENT: Three short adits and a shaft.
GEOLOGY: The three caved adits follow a N 75 degrees E-striking vein adjacent to a diorite dike. The almost-vertical vein was reported to be from 1-2 feet thick and follows a narrow, decomposed diorite that may be part of the same vein system at the Big Twenty mine to the east. The mineralization was also reported to be mainly on the southside of the dike. The vein filling was described as, soft, light pumice-like quartz containing a little sulphur thought to be a product of the oxidation of pyrite. The dumps are covered with pyrite and sulphur.
REMARKS: In the comments about the mine there is a reference to a Stamp Mill operating at Mountain View in 1908. The old mill appears to have treated some of the ore from this and may be the Big Twenty Mine. The good mines to the east are now within the Indian Reservation.
SAMPLE SITE: 3784
REFERENCES: Ransome, 1909, The Yerington copper district, Nevada: USGS Bull 380, p. 118.
Hill, 1915, Some Mining Districts in northern California and northwestern Nevada: USGS Bull 594.
EXAMINER: Jack Quade
DATE VISITED: 6-12-89
Attachment:

PROPERTY NAME: Fairplay claims
OTHER NAMES:
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Reese River Canyon
OWNERSHIP: Unknown
SEC: ,T: 12N ,R: 28E
North: 4303229 East: 339545
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Mine shaft adjacent to Radio Tower
GEOLOGY: Shaft was sunk on a 1-foot, vertical, N 25 degrees W-striking white quartz vein in granite. Some ore was stockpiled on dump but there was no way to ship it as the Radio Tower road probably did not exist at the time the ore was mined. Like many of the other workings in the area...there were no roads???
REMARKS: Most of the roads in the Mountain View district from the west up and into the Wassuk Range are almost impassable due to heavy flash flood damage. Reese River Canyon is no exception although the road is good east of this site because of the Radio Tower.
SAMPLE SITE: 3795
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

PROPERTY NAME: Hawkeye mill
OTHER NAMES: Mill site claim
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Veins
QUAD SHEET: Hussman Spring
OWNERSHIP: Unknown; this may be the old stamp mill reported to be operating in the district in 1908.
SEC: 16 ,T: 13N ,R: 27E
North: 4317547 East: 330187
PRODUCTION: Ore had been processed at the mill, both crushing and cyanide facilities and tailings.
HISTORY: Unknown
DEVELOPMENT: Portion of the mill, and buildings, and loading facilities.
GEOLOGY: Material supplied from different local mines. Part of the reason for sampling was to determine which mines, were being served.
REMARKS:
SAMPLE SITE: 3782
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-12-89
Attachment:

PROPERTY NAME: Mountain View mine
OTHER NAMES:
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Hussman Spring
OWNERSHIP: Unknown
SEC: 22-23 ,T: 13N ,R: 27E
North: 4315779 East: 332029
PRODUCTION: $4500 reported in 1909
HISTORY: Unknown
DEVELOPMENT: Shaft, prospects, trenching, road building and dozing.
GEOLOGY: Major workings were sunk on a volcanic breccia hosted in altered, punky-white, iron-stained quartz latite tuff.
REMARKS:
SAMPLE SITE: 3783
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-12-89
Attachment:

PROPERTY NAME: N.L. #1 claim
OTHER NAMES: Reservation Hill prospects
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Weber Reservoir
OWNERSHIP: Paradign Exploration, 1700 Foothill Road, Gardnerville, NV 89410
SEC: 35 ,T: 14N ,R: 27E
North: 4321350 East: 332309
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A shallow shaft
GEOLOGY: A 30-foot shaft was sunk on a narrow fracture filling along a N 25 degrees W trend in lavendar ash-flow tuff. The fracture and others like it locally are partially filled with silicified gouge.
REMARKS: Old roads south of Highway 95. A number of prospects to the northwest are all in alluvium.
SAMPLE SITE: 3779
REFERENCES: Schrader, 1947
EXAMINER: Jack Quade
DATE VISITED: 6-12-89
Attachment:

PROPERTY NAME: Northern Lights mine
OTHER NAMES: Chuckar #6 claim, AGAI claim
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Hussman Spring
OWNERSHIP: Marshall Hyne, 10 Spence Lane, Yerington, NV
SEC: ,T: 12N ,R: 28E
North: 4307818 East: 335968
PRODUCTION: Not recorded, but ore was shipped during WWI
HISTORY: The mine shipped ore during the first world war and it looks as though little has happened since.
DEVELOPMENT: Three shafts, many adits, open stopes, trenching and prospects. I would think the size of the underground workings may be as much as 5-7 hundred feet rather than 200 as reported as Ross.
GEOLOGY: Two inclines, 6 feet apart, on a N 35 degrees W-striking, 70 degrees NE-dipping, 4-foot vein in limy shale; gossan-like zone near the surface turns to calcite and then breccia with depth. Limited mineralization on the dumps (sample 3792).
The second and largest workings consist of two large shafts on the same N 35 degrees W heading following a 6-foot vein that contains crushed limestone and calcite vein and breccia with replacement mineralization including: bornite, chalcopyrite, cuprite, native copper malachite, azurite and pyrite (Sample from the dumps, 3793). The third sample was taken from a smaller prospect known as the AGAI claim. Again, a vein striking N 50 degrees W with silicified gossan but no visible copper hosted in limestone.
REMARKS: The last mine up the canyon is easier on foot.
SAMPLE SITE: 3792, 3793, 3794
REFERENCES: Ross, 1961, Geology and Mineral Deposits of Mineral County Nevada; NBMG 58.
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

PROPERTY NAME: Ophir #9 claim
OTHER NAMES: Penrod area
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Reese River Canyon
OWNERSHIP: Ray Spriggs, Spectrum Exploration, Box 616, Hawthorne, NV 89415
SEC: 18 ,T: 11N ,R: 29E
North: 4298019 East: 344905
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft, adit, and prospects
GEOLOGY: A line of shallow workings expose a N 10 degrees W-striking shear in granite. The vein consists of silicified gouge and quartz without visible mineralization.
REMARKS:
SAMPLE SITE: 3799
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

PROPERTY NAME: Reservation Hill prospects
OTHER NAMES:
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Weber Reservoir
OWNERSHIP: Unknown
SEC: 7 ,T: 13N ,R: 28E
North: 4318922 East: 335539
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Area has six shafts, seven adits and numerous prospects.
GEOLOGY: The workings are in badly fractured and folded, thin, interbedded, meta-sediments of limestone, chist and shales, thought to be Triassic in age. Locally the sediments are standing vertical and have been intruded by light-gray alaskite(?). The veins are commonly along bedding planes and show some movement. A few hundred feet south of this site, the sediments are in contact with granitic rocks.
REMARKS: Sample 3777 was taken from dumps associated with a shaft and adit. Workings may be within the Benway district of Schrader, 1947.
SAMPLE SITE: 3777, 3778
REFERENCES: Schrader, 1947
EXAMINER: Jack Quade
DATE VISITED: 6-12-89
Attachment:

PROPERTY NAME: Section 12 incline
OTHER NAMES: Penrod area
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): gold(?)
TYPE OF DEPOSIT: Contact
QUAD SHEET: Reese River Canyon
OWNERSHIP: Unknown
SEC: 12 ,T: 11N ,R: 28E
North: 4298603 East: 344448
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Incline
GEOLOGY: A flat-lying contact with granite is explored by a shallow adit and incline. The vein and gouge are partly silicified. Portions of the low-angle contact have calcite nodules.
REMARKS:
SAMPLE SITE: 3798
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

PROPERTY NAME: Section 12 shaft and adits
OTHER NAMES: Penrod area
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten, copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Reese River Canyon
OWNERSHIP: Unknown
SEC: 12 ,T: 11N ,R: 28E
North: 4298943 East: 343620
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft and prospects
GEOLOGY: Small workings follow a very narrow skarn zone between granite and limestone. The shaft dump has as much quartz as it does skarn suggesting this property may not have been mined for tungsten.
REMARKS: No scheelite was observed when the sample was put under a U.V. lamp.
SAMPLE SITE: 3797
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

PROPERTY NAME: Section 2 copper prospect
OTHER NAMES:
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Reese River Canyon
OWNERSHIP: Unknown
SEC: 2 ,T: 11N ,R: 28E
North: 4301312 East: 341274
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Prospect
GEOLOGY: A small prospect pit and adjacent trench follow a N 10 degrees W-striking, irregular dipping, 2- to 4-foot wide quartz vein in a grussy granite.
REMARKS:
SAMPLE SITE: 3796
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

PROPERTY NAME: Section 21 gold prospect
OTHER NAMES:
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein, breccia
QUAD SHEET: Hussman Spring
OWNERSHIP: Unknown
SEC: 21 ,T: 13N ,R: 27E
North: 4314840 East: 330188
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Unknown
GEOLOGY: Small prospect shaft on a N 65 degrees E-striking shear adjacent to an outcrop of iron-stained chert and breccia. Vein material includes pyrite within the matrix of the breccia.
REMARKS: Many of the important old mines in this part of the district are now on the Walker River Indian Reservation.
SAMPLE SITE: 3785
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-12-89
Attachment:

PROPERTY NAME: Section 22/23 shaft
OTHER NAMES:
MINING DISTRICT: Mountain View
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Hussman Spring
OWNERSHIP: Unknown
SEC: 22-23 ,T: 13N ,R: 27E
North: 4315779 East: 332029
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft, prospects, trenching, road building and dozing.
GEOLOGY: Major workings were sunk on a volcanic breccia hosted in a punky white and iron-stained quartz latite tuff.
REMARKS:
SAMPLE SITE: 3783
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-12-89
Attachment:

PROPERTY NAME: Babe No. 1 claim
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Olinghouse
OWNERSHIP:
SEC: 29 ,T: 21N ,R: 23E
North: 4392874 East: 291921
PRODUCTION: Minor
HISTORY:
DEVELOPMENT: Short adit and crosscuts, totaling less than 100m
GEOLOGY: Free visible crystalline gold occurs with drusy quartz along very thin (103mm) quartz veins which cut a dike and adjacent wallrock basalt flows and andesite lahar? The gold-bearing veinlets appear to be concentrated in the dike which is a light gray, porphyritic dacite with slightly darker, cognate inclusions in it locally. The Tertiary basalt which is cut by the dike is nearly black and locally vesicular (and amygdaloidal). Epidote is a common associate of the veined rock, and calcite occurs locally in veinlets. Gold is usually associated with quartz but can be on calcite. Chrysocolla also occurs on vein surfaces with limonite after pyrite. The dacite dike is about 11m wide and continues for a considerable distance on the surface. In the vicinity of the Renegade claim to the south gold reportedly occurs mainly in wallrock veins, not in the dike. Free gold can be found on outcrop at the Babe No. 1 in the dike.
REMARKS: Sample 4129 is select dacite dike rock with gold-bearing quartz veinlets collected from surface exposures. Sample 4130 is clay-rich gold are from narrow shear worked underground.
SAMPLE SITE: 4129
REFERENCES: Geesan,
EXAMINER: L. J. Garside
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Bosici Mines
OTHER NAMES: Gold Eagle claims (1986?)
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT: Vein
QUAD SHEET: Olinghouse
OWNERSHIP:
SEC: 21 ,T: 21N ,R: 23E
North: 4393858 East: 293722
PRODUCTION: Unknown
HISTORY:
DEVELOPMENT: A number of adits; several probably 50-100m. Drill holes up to 175m, probably by Homestake in 1986(?)
GEOLOGY: Workings in the vicinity of these samples explore silicified zones and veins with drusy quartz and sparse manganese oxide staining. Ceryargerite(?) may be present. The veins and silicified zones are within or closely associated with altered to fresh felsic dikes which cut amygdaloidal basalt flows of Miocene age. The dikes trend N15E and are mainly near vertical. Some contain biotite and feldspar phenocrysts and at least one phase is bleached and contains disseminated limonite pseudomorphic after pyrite. Sample 4153 is from a vein and silicified zone in this dike rock. At sample site 4152 vesicles in basalt are filled with from outside inward; a thin rim of celadonite and/or serpentine, crystalline epidote overlain with and intergrown with radially crystallized quartz (possibly pseudomorphic after a zeolite mineral), and calcite with oxide copper minerals. Some chalcocite and bornite(?) were also observed in the central part of filled vesicles.
REMARKS: Sample 4152 is select basalt samples with mineralized vesicles. Sample 4153 is select silicified felsic dike and quartz vein matter.
SAMPLE SITE: 4152, 4153
REFERENCES: Geasan, D.L., 1980, The geology of a part of the Olinghouse mining district, Washoe County, Nevada: unpubl. M.S. Thesis, University of Nevada, Reno, 118p.
EXAMINER: L.J. Garside and H.F. Bonham
DATE VISITED: 8-10-89
Attachment:

PROPERTY NAME: Buster mines
OTHER NAMES: TJ claims (1988?)
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Olinghouse
OWNERSHIP:
SEC: 21 ,T: 21N ,R: 23E
North: 4393726 East: 294267
PRODUCTION: Unknown
HISTORY:
DEVELOPMENT: Shaft(?) with moderate-sized dump. New dozer roads and at least 3 rotary drill holes done last year by Billaton Minerals USA, Inc. Reportedly none were deeper than 175m.
GEOLOGY: Several prospects in this area are in the vicinity of a northerly-trending zone of alteration and light-colored latite? dikes which cut dark greenish gray andesite. The andesite has platy phenocrysts of plagroclase like the Alta Andesite (Tertiary) elsewhere. Limonite pseudomorphs of pyrite occur in the dike rock which is also altered and appears to be silicified and cut by vein quartz in samples from the dump (location 4128). The trend of mineralization in the working sampled could not be determined.
REMARKS: Sample 4128 is select silicified latite(?) and vein quartz from a dump. Photo 11 is of sample sacks from Billaton drilling project.
SAMPLE SITE: 4128
REFERENCES: Gerson, Geology of The Olinghouse Mining district, Washoe County, Nevada; M.S. thesis, University of Nevada-Reno.
EXAMINER: L. J. Garside
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Derby mine
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Fernley West
OWNERSHIP:
SEC: 13 ,T: 20N ,R: 23E
North: 4385753 East: 298313
PRODUCTION:
HISTORY:

DEVELOPMENT: An adit and 2 small pits (three prospect symbols on topographic map) and a more extensive adit which is completely covered by the I-80 highway fill.

GEOLOGY: Scheelite is reported to occur in garnet-bearing skarn adjacent to Mesozoic granitic rock (see Stager and Tingley, 1988, for a detailed description). Garnet and quartz are common in the skarn and epidote is less common. The small area of Mesozoic rock outcrop here is geologically relatively complex. Several compositional variants of granitic rock (diorite, granite, diorite(?) pegmatite) are present. No scheelite was observed on dumps or with black light on the collected sample (4116).

REMARKS: Sample 4116 is iron-stained quartz-garnet skarn with local white quartz veinlets. It is a select sample from dumps.

SAMPLE SITE: 4116

REFERENCES: Stager, H. K. and Tingley, J. V. (1988) Tungsten deposits in Nevada: NBMG Bulletin 105, p. 202; Rose, R. L. (1969) Geology of parts of the Wadsworth and Churchill Butte Quandrangle, Nevada, NBMG Bulletin 71.

EXAMINER: L. J. Garside
DATE VISITED: 6-1-89
Attachment:

PROPERTY NAME: Golden Hawk claims
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT:
QUAD SHEET: Wadsworth
OWNERSHIP:
SEC: 14 ,T: 21N ,R: 23E
North: 4396134 East: 297411
PRODUCTION: Minor (?)
HISTORY:
DEVELOPMENT: Three relatively short adits or inclined shafts.
GEOLOGY: The workings at the main area are along a fault zone which contains crushed, pyritic quartz vein matter. The fault is N60E, 70NW and about 30 cm wide. Wallrock is silicified tuff of Whiskey Springs. A nearby biotite and plagioclase-bearing, intermediate-composition dike or sill is also altered and contains epidote. In another adit a N55E, 65SE fault has slickensides which rake 18 degrees SW in the fault plane. Unprospected areas of silicified and quartz-veined tuff were sampled nearby (samples 4147, 4148). At locality 4148 numerous quartz veins have an attitude of N30E, 80SE to 90 degrees. Wallrock at these prospects is also tuffs of Whiskey Springs.
REMARKS: Sample 4146 is select vein quartz from dumps. Sample 4147 is silicified tuff and quartz stockwork from an unprospected area across canyon to southwest. Sample 4148 is grab quartz vein matter from veined Tertiary welded tuff.
SAMPLE SITE: 4146, 4147, 4148
REFERENCES:
EXAMINER: L.J. Garside and H.F. Bonham
DATE VISITED: 8-1-89
Attachment:

PROPERTY NAME: Green Hill mine
OTHER NAMES: Olinghouse mine
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Eluvial placer
QUAD SHEET: Olinghouse
OWNERSHIP: Cliff Resources, Green Hill Mining Venture
SEC: 29 ,T: 20N ,R: 23E
North: 4392600 East: 292400
PRODUCTION: Estimated at 20,000 ounces
HISTORY: The Olinghouse Mine, operated in 1985-1987 was a joint venture between Peter Kiewit Mining Group and Nevada Pacific Mining Co. Cliff Resources acquired the property in 1987 and operated it at an increased production rate for about 1 year.
DEVELOPMENT: Open pit mine
GEOLOGY: Free gold occurs in eluvial placers in the canyon on the southeast flank of Green Hill. Quartz vein deposits occur in andesite and basalt flows of Tertiary age on Green Hill. Gold was recovered by gravity means; fine tailings were piped to the east in the Truckee River Valley. Fine gold was apparently not recovered during the pre-Cliff Resources efforts. Cliff installed spiral riffle bowls to recover +400 mesh gold. Scheelite and cinnabar were noted in the heavy mineral factions during gravity concentration (Mitch Fanning, oral commun., 1989).
REMARKS: Photo 8 is of dump from open pit. Photo 10 is similar. Photo 13 is of dragline.
SAMPLE SITE:
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Keystone mine
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Olinghouse
OWNERSHIP:
SEC: 30 ,T: 21N ,R: 23e
North: 4393156 East: 291116
PRODUCTION:
HISTORY:
DEVELOPMENT: Adit with large dump. Numerous other workings in the vicinity. Adit trends N30E
GEOLOGY: Free gold is reported to occur in quartz veins and veinlets. The wallrock is andesite (Tertiary). Quartz veins up to 6m? wide are reported from the Keystone. Quartz vein matter is very rare on the dump (shown as tailings on the topographic map). The sample from the dump is mostly propylitized rock. Some carbonate vein matter also noted on dump.
REMARKS: A select sample (4126) of iron-stained andesite with sparse pyrite and rare thin quartz veinlets was collected from the dump.
SAMPLE SITE: 4126
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Lady Bug No. 11 claim
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Mineralized fault zone
QUAD SHEET: Fernley West
OWNERSHIP: Lady Bug Mines, Inc. (from sign); claim notice Ed. and W.L. Rockefeller, P.O. Box 85, Fernley, NV
SEC: 11 ,T: 20N ,R: 23E
North: 4387324 East: 297364
PRODUCTION: None(?)
HISTORY:
DEVELOPMENT: Numerous pits, and two shafts; one with a dump 40m long, 5m wide and 2-5m high
GEOLOGY: Prospect pits and underground workings explore altered and quartz-veined zones in tertiary andesite flows(?) The wallrock is a distinctive, platy plagroclase phenocryst andesite, dark gray in color. The phenocrysts of plagroclase are up to 1cm in diameter and 102mm thick. The unit resembles flows in basal alta formation in the Reno area. Light gray altered andesite with equant plagroclase and originally biotite(?) and hornblende(?) was noted on a dump. This unit somewhat resembles Kate Peak Fm. Two mineralized fault zones were noted: a 7-10m wide fault breccia zone with an attitude of N65E, 90 degrees; and a 1m wide fault zone with a N35E, 75 degrees SE attitude. In the iron-stained and argillized fault breccia zones, quartz veins and stockworks occur with iron-oxide minerals. No sulfide minerals were noted. The quartz vein matter is milky to clear; chalcedony is also noted. Late calcite occurs rarely in the center of veins. Iron-stained, argillized and silicified wallrock occurs for a few meters outside of the fault crush zone; outward from that is propylitized rock. The area of sample 4123 is the main mined or prospected area. Prospects and other workings shown on the topographic map in the hills of SE14 Sec.11 are mainly minor pits and workings on similar (cont attachment)
REMARKS: Sample 4123 is select vein quartz and argillized, iron-stained, and silicified andesite from dumps of pits and shafts. Photo 5 is of sign on dump.
SAMPLE SITE: 4123
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-26-89

Attachment: argillization and silicification in tertiary andesite. Prospects shown in the valley areas are usually for assessment or location and do not hit bedrock.

PROPERTY NAME: Mountain Goat claim
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): uranium (?)
TYPE OF DEPOSIT: Altered fault zone
QUAD SHEET: Fernley West
OWNERSHIP: Milton Jacobs and Al Risley (1951)
SEC: 14 ,T: 20N ,R: 23E
North: 4386608 East: 297359
PRODUCTION: None
HISTORY: A sign and writing on adit door gives name and ownership and says "this claim staked out for uranium, Aug. 8, 1951.
DEVELOPMENT: Several pits, a 10-12m vertical shaft, a 6m inclined shaft, a 4m adit and a 25m adit.
GEOLOGY: Numerous pits and shallow workings explore bleached and slightly iron-stained fault zones in a quartz-latite welded tuff. The tuff is purple with conspicuous white pumice lapilli up to several cm in diameter. It contains biotite (5%) plagroclase (25%), and a few percent sanidine and slightly vermicular quartz. E. C. Gingler (written commun., 1977), correlates this unit with the Santiago Canyon Tuff. The relatively minor hydrothermal alteration is found along two east-west, 70S faults in the main area of workings. A high-angle northeast-trending fault was also prospected. Readings with a scintillator are as follows: background (welded tuff) = 80-100 cps on surface and 150-175 underground. No readings over 1.5 times background were noted. Any uranium mineralization at this site must be relatively obscure, as none was observed during this visit.
REMARKS: Photo 7 is of the name of the prospect on adit door. Sample 4124 is select iron-stained, bleached tuff from several dumps.
SAMPLE SITE: 4124
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Norris Spring No. 11 claim
OTHER NAMES: Lake View(?)
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT: Vein
QUAD SHEET: Wadsworth
OWNERSHIP:
SEC: 14 ,T: 21N ,R: 23E
North: 4396348 East: 296372
PRODUCTION: Minor?
HISTORY: Old claim post inscribed WECORD? Lake View, Cop 54193
DEVELOPMENT: Several shallow shafts, most less than 50m. Some adits on lower slopes.
GEOLOGY: Drusy quartz veins occur in a fault zone about 10m wide which trends N20E, 45SE. The veins and stock works are individually, only a few cm wide; silicification of the wallrock is common. The wallrock is the tuff of Chimney Springs and overlying tuff ("upper Chimmey Springs"), a quartz richilgnimbrite. Jarosite, limonite, pyrite, and sparse barite are noted in quartz veins.
REMARKS: Sample 4149 is select quartz vein matter from dumps.
SAMPLE SITE: 4149
REFERENCES:
EXAMINER: L.J. Garside and H.F. Bonham
DATE VISITED: 8-2-89
Attachment:

PROPERTY NAME: Norris Spring No. 7 claim
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Olinghouse
OWNERSHIP:
SEC: 15 ,T: 21N ,R: 23E
North: 4396478 East: 296086
PRODUCTION: Minor(?)
HISTORY:
DEVELOPMENT: Shaft and adit
GEOLOGY: A N40W, 45 degree SE fault zone in the tuff of Chimney Springs has been prospected along a 150m length. At the main workings, drusy and chalcedonic quartz occur in the fault zone with associated jarosite and manganese oxide minerals. Pyrite occurs mainly as fracture coatings and wallrock disseminations. Water stands in one shallow shaft. The vein may be that explored by the Stud mine adit to the south 200m.
REMARKS: Sample 4150 is select quartz vein matter from dump.
SAMPLE SITE: 4150
REFERENCES:
EXAMINER: L.J. Garside and H.F. Bonham
DATE VISITED: 8-2-89
Attachment:

PROPERTY NAME: Paiute No. 35 claim
OTHER NAMES: Big Mouth Canyon area
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: Pah Rah Mtn.
OWNERSHIP: Robert M. Caldwell, 146 W. Second St., Winnemucca, NV 89445
SEC: 17 ,T: 22N ,R: 23E
North: 4405188 East: 292795
PRODUCTION: None or minor
HISTORY:
DEVELOPMENT: An adit about 50m long with a 10m crosscut.
GEOLOGY: The portal of the adit at this property is in relatively unaltered (propylitized?) crystal ritric welded tuff, possibly the tuff of Coyote Spring although lithics are quite common in this unit. In the adit bleached and silicified tuffs occur along a N40W, vertical fault. Presumably calcite and quartz vein matter on the dump came from this zone. The calcite is coarsely crystalline and white to pink; rarely, pyrite is disseminated in it and in included wallrock fragments. The quartz vein matter is drusy quartz veinlets forming a stockwork around bleached and silicified tuff. Iron oxide minerals stain the quartz locally. No adularia was observed macroscopically, although its presence is reported by Bonham (1969, p. 75). A prospect 400m downstream from the above locality (sample site 4136) is a small caved adit and dump. Only silicified and bleached wallrock is on the dump; no vein matter was observed.
REMARKS: Sample 4136 is select quartz and calcite vein matter (about equal proportions) from dump. Photo 18 is of Big Mouth Canyon with downstream prospect shown (see above).
SAMPLE SITE: 4136
REFERENCES: Bonham, H.F., Jr. (1969) Geology and mineral deposits of Washoe and Storey Counties, Nevada, NBMG Bull. 70.
EXAMINER: L. J. Garside
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Rainbow claims
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT:
QUAD SHEET: Fernley West
OWNERSHIP: Tom Andrews, 10 Bitterbrush, Reno, NV 89523 (1985)
SEC: 11 ,T: 20N ,R: 23E
North: 4386807 East: 296825
PRODUCTION: None
HISTORY: Some exploration and drilling was reportedly done by Billaton Exploration in the last several years.
DEVELOPMENT: Several prospect pits over approximately 1km?
GEOLOGY: Minor iron-oxide staining and silicification occurs along a N70E, 65 degrees NW fault at one prospect (Sample 2). a 2m adit explores the fault zone. The fault separates purplish, platy-plagroclase phenocryst andesite flow from a light greenish gray, intermediate-composition, lithic pumice tuff. The tuff appears to be slightly to moderately welded; phenocrystic quartz was not observed. This tuff unit is probably the inter-andesite pyroclastic rock mapped by Rose as Old Gregory Fm, although this term should not be used here. The unit appears to be less than 50?m thick and be interbedded with Alta(?) Andesite.
REMARKS: A grab sample of silicified, iron-stained tuff was collected from the N70E, 65NW fault zone.
SAMPLE SITE: 4125
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: Stud mine
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein?
QUAD SHEET: Olinghouse
OWNERSHIP:
SEC: 10 ,T: 21N ,R: 23E
North: 4396686 East: 296070
PRODUCTION:
HISTORY:
DEVELOPMENT: An adit with moderate-sized dump. Probably several hundred meters of workings. Locked door on adit. Adit trend at portal is N25W.
GEOLOGY: Based on examination of dump samples, mineralization at the stud mine is narrow quartz stringers with pyrite. No other sulfides were observed. Pytire is also disseminated in the wallrock, a distinctive welded tuff with 2-3mm red, slightly vernacular quartz. This unit could be the tuff of Chimney Springs. Some of the vein quartz is amathystine; calcite vein matter was noted rarely on the dump. Pyrite also occurs on fractures without vein quartz. Alteration of the tuff is silicification and argillization. The attitude(s) of any veins could not be determined.
REMARKS: Photo 16 is of the dump and adit portal. Sample 4134 is select vein matter and pyritized and pyrite-coated fractures of wallrock from dump.
SAMPLE SITE: 4134
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: Sundown claim
OTHER NAMES: Wadsworth Uranium group; RB No. 24 claim (1989)
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): uranium
TYPE OF DEPOSIT: Strata-bound
QUAD SHEET: Fernley West
OWNERSHIP:
SEC: 14 ,T: 20N ,R: 23E
North: 4386101 East: 297257
PRODUCTION: None
HISTORY:
DEVELOPMENT: Several prospect pits and very short adits in NW/4 Sec. 14, all in this 1/4 section for uranium.
GEOLOGY: Description in NBMG Bulletin 81 (Garside, 1973, p. 107) is essentially correct. The most anomalous radioactivity was noted in a 6m adit in white, unwelded basal tuff of the Nine Hill Tuff just below the basal densely welded zone. The Nine Hill here lies above a quartz-brotite tuff (tuff of Whisky Springs). Radioactivity in the small adit (sample site 4117) isabout 1000 cps (counts per second); background is about 100 cps, sometimes 80 cps. The highest radioactivity is noted on carbonized wood in the tuff. Fragments of carbonized and silicified wood and plant matter 1cm to 100cm in length occur in the tuff parallel to compaction foliation in the welded zone above. The attitude of the tuff isestimated as N50E, 30 degrees NW. Uranophane(?) occurs as rare coatings on fracture in the tuff. A diabase dike occurs in one pit 250m westof site 4117. There radioactivity is about 200 cps.
REMARKS: Sample 4117 is select uranophane-coated tuff and radioactive carbonized wood from adit face.
SAMPLE SITE: 4117
REFERENCES: Garside, L. J. (1973) Radioactive mineral occurrences in Nevada: NBMG Bulletin 81.
EXAMINER: L. J. Garside
DATE VISITED: 6-7-89
Attachment:

PROPERTY NAME: Sunriver Mining Co., Inc.
OTHER NAMES: SMC
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): unknown
TYPE OF DEPOSIT:
QUAD SHEET: Fernley West
OWNERSHIP: Sunriver Mining Co., Inc. reportedly owns fee land around the house and other buildings. ph (702) 575-2401
SEC: 12 ,T: 20N ,R: 23E
North: 4386660 East: 298700
PRODUCTION:
HISTORY:
DEVELOPMENT: Buildings appear less than 10 years old.
GEOLOGY: A gentleman from the company reported that the company concentrates black sands from stream? wash and extracts platinoids from them. Sands in the vicinity of the buildings could be Lahontan beach deposits (Quaternary). Horizontal Lahontan silts and clays are exposed south of the buildings along the old highway.
REMARKS: Photo 10 is of buildings on site.
SAMPLE SITE:
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-26-89
Attachment:

PROPERTY NAME: Woody mine
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold (?)
TYPE OF DEPOSIT: Vein
QUAD SHEET: Olinghouse
OWNERSHIP: Willard Hunter, P.O. Box 11672, Reno, NV 89510 (1979)
SEC: 10 ,T: 21N ,R: 23E
North: 4398107 East: 295223
PRODUCTION: None
HISTORY:
DEVELOPMENT: Several small prospect pits.
GEOLOGY: A 10m-wide mineralized fault zone with an attitude of N60W, 60-79(?) NE cuts hornblende andesite flows(?). The andesite in the area ranges from fine-grained greenish-gray locally vesicular rock with accicular hornblende and rare quartz to a more porphyritic phase with plagioclase and biotite. 1The Tertiary andesite appears to lie with angular unconformity on Oligocene-Miocene tuffs. The fault zone is silicified, and limonite after pyrite, sericite, and barite(?) were observed.
REMARKS: Sample 4151 is select silicified andesite. Bonham photo.
SAMPLE SITE: 4151
REFERENCES:
EXAMINER: L.J. Garside and H.F. Bonham
DATE VISITED: 8-3-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT: Vein
QUAD SHEET: Olinghouse
OWNERSHIP:
SEC: 22 ,T: 21N ,R: 23E
North: 4393725 East: 295979
PRODUCTION: None
HISTORY: Name written on wall of adit: Joseph Max???, January 10, 1917. Also another date: 1923.
DEVELOPMENT: A 6m long adit. Other adits and prospect pits in the vicinity
GEOLOGY: Quartz veining and stockworks occur in silicified welded tuff (Tertiary Tuff of Coyote Spring?). Drusy quartz veins and stockworks have open-space textures and limonite after pyrite. Biotite in wallrock is serricitized, and strongly silicified adjacent to veins. The adit is along a N35E, 80NW fault with slickensides and mullions having a 90 degree rake in the fault plane. Sparse barite is present in vein matter.
REMARKS: Sample 4145 is select quartz vein and stockwork matter.
SAMPLE SITE: 4145
REFERENCES:
EXAMINER: L.J. Garside and H.F. Bonham
DATE VISITED: 7-31-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Placer
QUAD SHEET: Olinghouse
OWNERSHIP: Bill Murdock
SEC: 26,27 ,T: 21N ,R: 23E
North: 4392450 East: 295960
PRODUCTION:
HISTORY:
DEVELOPMENT: Old shallow placer shaft; new pit dug by bulldozer (10m deep, 10m wide, and 30m long _ approx.)
GEOLOGY: This area is reportedly one that was identified by the Southern Pacific Co. as having placer alluvial gold. An old placer shaft attests to earlier work as well. A new pit is being dug by Bill Murdock.
REMARKS:
SAMPLE SITE:
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES: Big Mouth Canyon area
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: Pah Rah Mtn.
OWNERSHIP: Claims down the canyon from the examined property (Painte claims) owned by Robert M. Caldwell, Winnemucca NV
SEC: 17 ,T: 22N ,R: 23E
North: 4405691 East: 292430
PRODUCTION: None
HISTORY:
DEVELOPMENT: Several short adits with small dumps; minor prospect pits.
GEOLOGY: Several very minor workings along a steep-walled canyon explore iron-stained and hydrothermally altered zones in Tertiary welded tuff. At one adit (20m long) apparently established on a 25(?) cm wide crush zone along a N60W, 60 SW fault, quartz veinlets, iron oxides and silicified tuff are the only mineralization noted. Sparse biotite in the tuff is sericitized. No sulfides were noted. The tuff is relatively crystal poor and plagioclase-bearing; possibly the tuff of Coyote Spring.
REMARKS: Sample 4135 is select vein quartz and silicified and argillized wallrock from dump of short adit. Photo 17 is of the large, reddish, altered areas of gray tuff on canyon wall.
SAMPLE SITE: 4135
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT:
QUAD SHEET: Wadsworth
OWNERSHIP:
SEC: 23 ,T: 21N ,R: 23E
North: 4394759 East: 296899
PRODUCTION: None
HISTORY:
DEVELOPMENT: Numerous small prospect pits over an area of about 0.25 km2
GEOLOGY: Narrow, irregular quartz veinlets which cut Tertiary welded tuff have been prospected in several small pits. At the sampled locality, iron-oxide minerals and drusy too dense, clear quartz occur as veinlets and veins up to a few cm wide in a probable fault zone which trends N25E and appears to dip approximately 75SE. The welded tuff may be the Nine Hill Tuff.
REMARKS: Photo 14 illustrates the welded tuff section in this area. The sampled prospect is in the middle distance. Sample 4132 is select vein quartz from dump and outcrop.
SAMPLE SITE: 4132
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold (?)
TYPE OF DEPOSIT: Vein?
QUAD SHEET: Wadsworth
OWNERSHIP:
SEC: 14 ,T: 21N ,R: 23E
North: 4395924 East: 296916
PRODUCTION:
HISTORY:
DEVELOPMENT: Adit, mostly caved at portal
GEOLOGY: Mineralization observed in dump samples at the property consists of pyrite-bearing veinlets and fracture coatings with sparse brown calcite vein matter. Rare quartz vein matter was also observed on the dump, usually without calcite or pyrite. The attitude of any mineralized zone is unknown. The wallrock is plagroclase-bearing welded tuff (Nine Hill Tuff?)
REMARKS: Photo 15 is of the dump sampled and the pickup truck. Sample 4133 is select pyritized fracture coatings and calcite and quartz vein matter from dump.
SAMPLE SITE: 4133
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED:
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES: CLM claims (No. 11?), 1988?
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz stockwork
QUAD SHEET: Olinghouse
OWNERSHIP:
SEC: 15 ,T: 21N ,R: 23E
North: 4395024 East: 295203
PRODUCTION: None
HISTORY:
DEVELOPMENT: Prospect pits
GEOLOGY: Drusy quartz veinlets and stockworks cut a rhyolite welded tuff(?) along a 1-2m wide zone which trends N25E and dips 65SE to 90 degrees. A nearby coarsely crystalline calcite vein up to 1m wide has a similar trend and is near vertical. The wallrock unit contains quartz, feldspar, and biotite, as well as sparse lithic fragments. Biotite and feldspar are altered. The calcite vein was not sampled, and is not prospected.
REMARKS: Sample 4131 is select vein and stockwork quartz from outcrop. Photo 12 is of outcrop of calcite vein.
SAMPLE SITE: 4131
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Derby Dam
OWNERSHIP:
SEC: 22 ,T: 20N ,R: 23E
North: 4384903 East: 295691
PRODUCTION: None?
HISTORY:
DEVELOPMENT: Small dump; working location is not obvious.
GEOLOGY: Quartz stringers, 0.5-3 cm wide, occur in a 75cm wide argillic fault zone. The fault has an attitude of N15E, 70SE. The wallrock is dark gray Tertiary andesite with platy plagroclase phenocrysts (Alta Andesite?).
REMARKS: Sample 4127 is select quartz vein matter from the fault zone.
SAMPLE SITE: 4127
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-27-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Olinghouse
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Fernley West
OWNERSHIP:
SEC: 14 ,T: 20N ,R: 23E
North: 4385168 East: 296710
PRODUCTION: None(?)
HISTORY: Old claim posts noted; none recent.
DEVELOPMENT: Several dozen prospect pits and short adits.
GEOLOGY: Spotty vein quartz with sparse pyrite (usually oxidized to limonite) occurs along veins and argillized fault zones of several trends. One of the better mineralized and developed quartz veins occurs in the vicinity of two adits at sample site 4118. These two adits with moderate-sized dumps explore argillized zones with spotty vein quartz. The zones are up to 1.5 m wide and contain pods and veins of white dense to clear drusy quartz. Sparse pyrite was noted. No quartz vein is over 20 cm wide. The mineralized zones trend N15E and N80W and are near-vertical. Mineralized zones about 500m to the northwest are similar but trend N10-50E, and dip 30-65 degrees NW; widths there are up to 2m. Malachite and iron-oxide minerals were noted and sampled (no. 4119) at a small pit in propylitized andesite. Oxide copper minerals were not noted elsewhere. All mineralization is in Tertiary Alta Andesite flows or intrusive. The flows have a characteristic platy plagioclase; the intrusive is hornblende-bearing. At site 4120 a shaft is located on a narrow (less than 1m?) N65E, 70NW altered zone with spotty vein quartz. Malachite was noted on dump about 300m north of 4120.
REMARKS: Sample 4118 is select quartz vein matter from dump of upper adit and outcrop. Sample 4119 is select malachite-coated andesite from a small dump. Sample 4120 is select sample from ore? pile on dump of shaft of quartz vein matter.
SAMPLE SITE: 4118, 4119, 4120
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-7-89
Attachment:

PROPERTY NAME: Big Deal Claim #5
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Pamlico
OWNERSHIP: Delbert Shultz, P.O. Box 407, Hawthorne, NV
SEC: 2 ,T: 6N ,R: 32E
North: 4251821 East: 379585
PRODUCTION: None
HISTORY: None
DEVELOPMENT: None
GEOLOGY: A 4-foot quartz vein is exposed for about 20 feet in a drainage. The vein strikes N55 degrees E, is near vertical, and contains copper oxides and sulfides.
REMARKS: West of the Wamsely shafts in a drainage.
SAMPLE SITE: 3618
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-2-89
Attachment:

PROPERTY NAME: Big Deal Claims 1-26
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Pamlico
OWNERSHIP: Delbert Shultz, P.O. Box 407, Hawthorne, NV
SEC: 35 ,T: 7N ,R: 32E
North: 4253260 East: 378748
PRODUCTION: Some but exact amount unknown
HISTORY: Mine is active
DEVELOPMENT: Shallow shafts, adits and prospects, cabin, stockpiled ore, and small mill.
GEOLOGY: A series of shallow workings explore parallel veins that trend east-west in intercalated volcanics and sedimentary rocks of Mesozoic age. Some of the veins are massive quartz others are strongly brecciated but all of them show copper oxides and sulfides.
REMARKS: The owner has been mining these veins and stockpiling the ore near his cabin and mill.
SAMPLE SITE: 3619
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-2-89
Attachment:

PROPERTY NAME: Central mines
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Quartz veins and breccia
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 13 ,T: 7N ,R: 31E
North: 4258538 East: 372102
PRODUCTION: There was production but the amount and when are not available.
HISTORY: The mines in the camp were active in the 1870's and 1880's and these mines had a later period of activity as there is a large, defunct, heap leach operation across the mouth of the canyon servicing these mines.
DEVELOPMENT: There are 18 shafts, numerous adits and prospects, and a large heap leach operation and good roads.
GEOLOGY: The maze of workings follow quartz veins and breccia in fissures although some of the veins were not fault hosted. Many of the shafts are shallow and open stopes are common. Since free gold associated with veins was reported in the surrounding mines it may be that the Central mines had the same type of deposits and they simply mined the whole vein system to the surface or they may have had some secondary enrichment near the surface. The host rocks are Triassic volcanogenic materials that are highly altered near some of the veins.
REMARKS: Good roads south of the Garfield Flat road.
SAMPLE SITE: 3626
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-3-89
Attachment:

PROPERTY NAME: Gold Bar mine
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, lead
TYPE OF DEPOSIT: Breccia
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 19 ,T: 7N ,R: 31E
North: 4256745 East: 372280
PRODUCTION: There are loading-bins and ore stockpiled and considerable workings so there was production but the amount is unknown.
HISTORY: These mines are part of the 1870's to 1880's production years. The mine was discovered by Domenico Tubino in 1885.
DEVELOPMENT: Five shafts and numerous adits and prospects within 500 feet of each other.
GEOLOGY: There is a major N45 degrees W structure along this side of the range in volcanogenic rocks with some Luning Limestone on the southwest block and some porphyry intrusive on the northeast block. Most of the workings are collared in porphyry although the structure and other units are contacted at depth. The main vein system follows the northwest shear. The vein material was both quartz and breccia with visible lead and other sulfides.
REMARKS: Poor road from the Pamlico (site).
SAMPLE SITE: 3628
REFERENCES: Archbold and Paul, 1970, Geology and mineral deposits of the Pamlico mining district, Mineral County, Nevada NBMG Bull 74. Ross, A.C. 1961, Geology and mineral deposits of Mineral County, Nevada; NBMG bULL 58
EXAMINER: Jack Quade
DATE VISITED: 5-3-89
Attachment:

PROPERTY NAME: Gold Bug mine
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, copper, molybdenum
TYPE OF DEPOSIT: Contact
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 8 ,T: 7N ,R: 32E
North: 4260416 East: 375159
PRODUCTION: $10,000 in gold and copper reported
HISTORY: Production was reported in 1919
DEVELOPMENT: A cluster of shafts, prospects and dozer-cuts.
GEOLOGY: The workings explore a contact zone between Luning Limestone and a quartz monzonite. The contact zone is narrow and without much tactite. The mineralization is coarse-grained muscovite along the contact zone, with garnet and epidote within the skarn but almost completely devoid of tungsten. Copper sulfides is sporadically distributed in the monzonite, limestone and throughout the skarn. Free gold was reported to have occurred with copper oxides and silicates.
REMARKS: Good road east of the Garfield Flat road.
SAMPLE SITE: 3634
REFERENCES: Archibold and Paul, 1970, Geology and Mineral Deposits of the Pamlico Mining district, Mineral County, Nevada; Bull 74. Lincoln, 1923, Mining Districts and mineral resources of Nevada, Nevada Newsletter Publishing Co.
EXAMINER: Jack Quade
DATE VISITED: 5-4-89
Attachment:

PROPERTY NAME: Golden Bomber mine
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 31 ,T: 7N ,R: 31E
North: 4261188 East: 374062
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: The original shaft has been bulldozed into what is now an open-pit 150 feet long and 30 feet wide.
GEOLOGY: The pit exposes a narrow (6-inch-thick), flat-lying quartz vein in a deeply weathered quartz monzonite. A very elaborate sampling grid has been superimposed on the exposed granite face. Sample of the vein included copper sulfides, pyrite, and other unidentified sulfides.
REMARKS: Just east of Garfield Flat road.
SAMPLE SITE: 3631
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-4-89
Attachment:

PROPERTY NAME: Good Hope #2 mine
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Breccia and quartz
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 5 ,T: 7N ,R: 32E
North: 4260935 East: 375211
PRODUCTION: Unknown
HISTORY: Unknown but old.
DEVELOPMENT: An incline and a line of five prospects.
GEOLOGY: The workings follow a N50 degrees W, 4-foot-thick quartz vein and breccia vein in granite. The incline follows the 45 degrees NE dip slope. The vein contains copper and other sulfides.
REMARKS: Reached by good road northeast of the Garfield Flat road. This looks to have been an old prospect that was not followed beyond an initial look.
SAMPLE SITE: 3633
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-4-89
Attachment:

PROPERTY NAME: Good Hope mine
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, copper, lead
TYPE OF DEPOSIT: Vein
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 24 ,T: 7N ,R: 31E
North: 4256701 East: 371907
PRODUCTION: As of 1923 $150,000 reported, in gold production.
HISTORY: Worked during the 1870's to 1880's. Production years were from 1885-1912.
DEVELOPMENT: An adit about 500 feet long with 120 feet of drifting.
GEOLOGY: The adit crosscuts a vein that is itself offset on each end by northerly-trending faults. This accounts for the limited exploration in either direction (120 feet). No attempt was made to locate the fault extensions. The vein consisted of breccia with galena, copper sulfides and free gold. The vein is hosted in a porphyry intrusive of Mesozoic age.
REMARKS: Fair road up Neversweat Canyon.
SAMPLE SITE: 3629
REFERENCES: Archbold and Paul, 1970, Geology and mineral deposits of the Pamlico mining district, Mineral County, Nevada NBMG Bull 74. Ross, A.C. 1961, Geology and mineral deposits of Mineral County, Nevada; NBMG bULL 58
EXAMINER: Jack Quade
DATE VISITED: 5-3-89
Attachment:

PROPERTY NAME: L. P. Claims
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Kinkaid
OWNERSHIP: Unknown
SEC: 1 ,T: 7N ,R: 31E
North: 4262170 East: 371953
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: An adit and prospects
GEOLOGY: A N50E, vertical, two-foot shear in granite is explored by an adit. The vein consists of quartz stringers and breccia with copper oxides and sulfides. Recent dozing along the strike apparently failed to expose any extension of the vein.
REMARKS: West of the Garfield Flat road.
SAMPLE SITE: 3632
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-4-89
Attachment:

PROPERTY NAME: La Panta
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: replacement
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 7 ,T: 7N ,R: 32E
North: 4260314 East: 373870
PRODUCTION: Reported to be $300,000
HISTORY: Originally worked in the 1880's.
DEVELOPMENT: Mine consists of two claims, the La Panta and Esmeralda. A two compartment shaft 300 feet deep, also an incline that connects with the deep shaft at the 150 level. Total workings comprise about 5000 feet. Some recent dozing formed a small pit on the northside of the property.
GEOLOGY: The ore deposits are irregular replacement bodies in limestone, consisting of siliceous, ferruginous, gossan material occupying fracture zones or along bedding planes. Some jasperoid is present locally. The host rock is Luning Limestone intruded locally by a basalt dike and, at depth, by granite.
REMARKS: Located just north of the Garfield Flat road.
SAMPLE SITE: 3623
REFERENCES: Vanderburg, 1937, Reconnaissance of mining districts in Mineral County, Nevada; USBM I.C. 6941. Ross, D.C., 1961, Geology and mineral deposits of Mineral County, Nevada; NBMG Bull 58.
EXAMINER: Jack Quade
DATE VISITED: 5-3-89
Attachment:

PROPERTY NAME: Lowman mine
OTHER NAMES: Lomar mine
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): antimony
TYPE OF DEPOSIT: vein
QUAD SHEET: Pamlico
OWNERSHIP: A.B. Lowman, Glendale, CA; L.M. Beard, Hawthorne, NV
SEC: 33 ,T: 7N ,R: 32E
North: 4253564 East: 376099
PRODUCTION: Forty-two tons of 7% antimony ore was reported to have been shipped in 1932.
HISTORY: Unknown
DEVELOPMENT: Inclined 87-foot shaft with 45 and 60 foot levels and 117 feet of drifting on the adjoining adit. Two short adits and an open pit with a cabin at the bottom of the hill.
GEOLOGY: The vein in the upper main workings bears N55 degrees E, dips 45 degrees SE and is about 18 inches thick although the shear may be up to 4 feet wide in places. It consists of some quartz stringers but the greater mass is a quartz breccia. It was reported that the vein expanded to 36 inches in width on the 46 foot level but pinched to a few inches at the 60 foot level. Bindheimite occurs as blebs and pods within the quartz vein. Antimony occurs scattered throughout the vein system. The upper workings are hosted in a light-tan shale and what appears to be an andesite.
REMARKS: Access is south from the Garfield Flat road.
SAMPLE SITE: 3622
REFERENCES: Ross, D.C., 1961, Geology and mineral deposits of Mineral County, Nevada; NBMG Bull, 58.
Lawrence, 1963, Antimony deposits of Nevada; NBMG Bull. 61.
EXAMINER: Jack Quade
DATE VISITED: 5-2-89
Attachment:

PROPERTY NAME: Pamlico mines
OTHER NAMES: Rocky Top claims
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins and breccia
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 24 ,T: 7N ,R: 31E
North: 4257337 East: 371433
PRODUCTION: Reported to be $500,000 before 1915
HISTORY: First worked in the 1870's with the main production coming by the 1880's, placer activity in the canyon below the mines in 1912, worked intermittently thereafter. Some work being conducted at the time of this survey.
DEVELOPMENT: Several inclined shafts, drifts, raises, and crosscuts aggregating several miles in length. Currently there is a small screening plant and stockpiles of ore at the bottom of the hill near the old Pamlico (site).
GEOLOGY: The workings were reported to have explored and produced from four different vein systems. The ore consisted of iron-stained quartz that carried free gold as nuggets and wires and some argentiferous galena. Some of the veins were reported to be barren in places. Gold values apparently occurred in lenses along the vein but it was erratic. Most of the veins occurred along northwest-trending faults. According to Odlow, (1985), the workings were hosted in a porphyry intrusive of Mesozoic age.
A second sample was taken from the site of about 20 adits on the southside of the Pamlico mine just northeast of Neversweat Canyon. The workings were exploring a northeast fissure vein system in porphyry intrusive.
REMARKS: There are a great many discrepancies on the host rocks in the literature.
SAMPLE SITE: 3627, 3630
REFERENCES: Archbold and Paul, 1970, Geology and mineral deposits of the Pamlico mining district, Mineral County, Nevada NBMG Bull 74. Ross, A.C. 1961, Geology and mineral deposits of Mineral County, Nevada; NBMG bULL 58
EXAMINER: Jack Quade
DATE VISITED: 5-3-89
Attachment:

PROPERTY NAME: Pomico claims
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): barite(?), copper(?)
TYPE OF DEPOSIT:
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 26 ,T: 7N ,R: 32E
North: 4255734 East: 379197
PRODUCTION: Unknown
HISTORY: Recent prospecting
DEVELOPMENT: Open pits and trenches
GEOLOGY: Prospects expose a N25 degrees E-striking, 75 degrees SE-dipping barite vein containing minor copper near a contact between Mesozoic limestone and volcanics. Other prospects in the area are apparent barite prospects.
REMARKS: Just north of the Garfield Flat road.
SAMPLE SITE: 3620
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-2-89
Attachment:

PROPERTY NAME: South Extension of Lazy Man mine
OTHER NAMES: Ashby Gold mine
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Pamlico
OWNERSHIP: In 1966; Ernie Johns, Mina, NV
SEC: 27 ,T: 7N ,R: 32E
North: 4254971 East: 378484
PRODUCTION: 125,000 up to 1939, presently active.
HISTORY: Discovered in 1933 by Ashby who operated the mine from 1933 to 1938. The mine has operated intermittently since but is active now.
DEVELOPMENT: Ten inclines, numerous prospects, living facilities and mill, fenced and in operation. Original Ashby Gold Mine consisted of 6 unpatented claims; there are more now. Reported to have 2000 feet of underground workings.
GEOLOGY: The main workings were reported by Vanderburg to be: A series of steeply-dipping quartz veins from 6 inches to 6 feet thick striking N10 degrees to 35 degrees W in altered volcanics of the Dunlap Formation which are cut by aplite dikes; veins carry free gold and minor silver and pyrite.
The incline I sampled was along a fissure vein to the south of the main workings bearing N25 degrees W, 65 degrees NE. The incline was sunk on the dip-slope and the sample was of quartz stringers taken from vein and silicified gouge.
REMARKS: Workings are south of the Garfield Flat road
SAMPLE SITE: 3621
REFERENCES: Vanderburg, 1937, Reconnaissance of mining districts in Mineral County, Nevada; USBM I.C. 6941
Ross, D. C., 1961, Geology and mineral deposits of Mineral County Nevada; USBM Bull. 58.
EXAMINER: Jack Quade
DATE VISITED: 5-2-89
Attachment:

PROPERTY NAME: Unnamed Prospect shaft
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): copper, lead
TYPE OF DEPOSIT: Gossan
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 29 ,T: 7N ,R: 32E
North: 4254803 East: 374615
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small incline and adit. The area above the adit has been dozed as have prospects to the east. The dozing was done after a road was built into the area from the north.
GEOLOGY: Old workings explore a gossan in highly iron-stained limestone. Copper oxides, sulfides and minor galena are present.
REMARKS: Access to the area can be accomplished by driving up the McGill Canyon drainage. The workings are old enough to be on the 1967 Pamlico 7-1/2, but the roads are not.
SAMPLE SITE: 3625
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-3-89
Attachment:

PROPERTY NAME: Wamsely mine
OTHER NAMES: Big Deal claims
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): silver
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Pamlico
OWNERSHIP: Delbert Shultz, P.O. Box 407, Hawthorne, NV
SEC: 2 ,T: 6N ,R: 32E
North: 4251646 East: 379845
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two short shafts and recent drilling along the main structure within the last several years.
GEOLOGY: The shafts were sunk on a 5 foot N80 degrees W 70 degrees S shear with quartz stringers and quartz breccia hosted in a felsite intrusive. The ore mineral was argentiferous bindheimite.
REMARKS: The two shafts are prospects and probably did not have a production history.
SAMPLE SITE: 3617
REFERENCES: Ross, D. C., 1961, Geology and Mineral Deposits of Mineral County, Nevada; NBMG Bull. 58.
EXAMINER: Jack Quade
DATE VISITED: 5-2-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Pamlico
COUNTY: Mineral
MINERAL COMMODITY(IES): gold(?)
TYPE OF DEPOSIT: Vein
QUAD SHEET: Pamlico
OWNERSHIP: Unknown
SEC: 27 ,T: 7N ,R: 32E
North: 4255833 East: 374682
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two adits on the westside of the canyon with a small shaft and prospects on top of the hill, none of which are shown on the map.
GEOLOGY: The workings explore narrow, irregular quartz veins in highly fractured dark-gray limestone that has been intruded by porphyry.
REMARKS: Access to the area is by driving up the McGill Canyon drainage.
SAMPLE SITE: 3624
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-3-89
Attachment:

PROPERTY NAME: Golden Fleece mine
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: High sulfur epithermal precious metal
QUAD SHEET: Verdi
OWNERSHIP:
SEC: 24 ,T: 20N ,R: 18E
North: 4251646 East: 379845
PRODUCTION: Minor?
HISTORY:
DEVELOPMENT: Several short(?) adits
GEOLOGY: The area of the mine is located in an area of argillic and advanced argillic alteration and silicification in Mesozoic metavolcanic (Peavine sequence) rocks and tertiary microdiorite intensives. The main adit which is still accessible is in dark, greenish-gray, porphyritic meta-andesite. The adit follows a structure observed in the portal, which is a N10E, 30 degrees NW silicified zone or "ledge". The silicified zone is 15-30cm wide and consists of very spotty vein quartz strongly silicified rock, and iron-oxide gossan (Sample 3317). Presumably, unoxidized material (like sample 3316) occurs at depth. The silicified ledge is surrounded by an argillized envelope at least several meters wide. Sericite was identified from one sample of this material (by x-ray diffraction), although clay minerals are also certainly present.
REMARKS: Sample 3316 is select quartz vein matter form the lower dump, containing pyrite and tetrahedrite (by x-ray). Sample 3317 is select gossan and quartz vein matter from a dump at the Golden Fleece. Samples of related mineralization and alteration in the vicinity include: 3319, 3324, 3325, 3326, 3328, 3330, 3334 (New Boston claim), 3403, 3405 (near Fravel mine); Sample 484 is from same somple (although not a split) as 3317, and similarly, 483 is from same sample as 3316.
SAMPLE SITE: 3317, 3316
REFERENCES: Hudson, D. M. (1977) Geology and alteration of the Wedekind and part of the Peavine districts, Washoe County, Nevada: Unpubl. MS. thesis, University of Nevada-Reno.
EXAMINER: L. J. Garside
DATE VISITED: 6-9-83
Attachment:

PROPERTY NAME: MTOLY(?) No. 1
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Verdi
OWNERSHIP:
SEC: 26 ,T: 20N ,R: 18E
North: 4383400 East: 248040
PRODUCTION: Small(?)
HISTORY:
DEVELOPMENT: One caved adit, one shaft(?), moderate to small dumps.
GEOLOGY: A small (20m x 100m) area of argillic alteration is Mesozoic granodiorite contains vein mineralization consisting of pyrite, tetrahedrite (by x-ray diffraction) and vein quartz. The altered zone trends northeast. One piece of chalcopyrite(?) was observed. Pyritized dike(?) rock (probably tertiary microdiorite or andesite) is associated with the mineralized area.
REMARKS: Sample 3327 is select sulfide dump material. Sample 3418 is fresh tertiary microdiorite from nearby (534).
SAMPLE SITE: 3327
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 7-31-85
Attachment:

PROPERTY NAME: Recall mine
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Mineralized fault zone
QUAD SHEET: Reno
OWNERSHIP:
SEC: 28 ,T: 20N ,R: 19E
North: 4383925 East: 255237
PRODUCTION: None
HISTORY:
DEVELOPMENT: Relatively minor, as are workings in this area of Sec. 28 and 29. Here, a 17m long adit and a 3m deep shaft.
GEOLOGY: Workings explore northerly-trending, east-dipping faults in argillized tertiary andesite. Apparently the area of the Recall mine workings lies in a fault zone which is hydrothermally altered. Limonite and hematite staining, coating, and gossan occur along the faults. Workings are too shallow to have encountered sulfides. The main fault in the "shaft" is N30W, 50 degrees NE; in the adit a major iron-stained fault has an attitude of due N, 50 degrees E.
REMARKS: Photo 14 is of the dumps. Sample 4103 is grab from the dumps of the Recall mine. Sample 4101 is similar material from nearby prospect to the southeast.
SAMPLE SITE: 4103
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: Red Metal mine
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): copper, gold
TYPE OF DEPOSIT: skarn; vein
QUAD SHEET: Verdi
OWNERSHIP:
SEC: 10 ,T: 20N ,R: 18E
North: 4388530 East: 247450
PRODUCTION: Some; amount unknown
HISTORY:
DEVELOPMENT: Small open pits and short (?) adits.
GEOLOGY: Milky quartz veins and veinlets contain sparse remnants of the hypogene minerals bornite, pyrite, magnetite, and chalcopyrite. Oxide copper minerals (tenorite,malachite) are common and iron oxides occur as boxworks and fracture coatings. The wallrock is predominantly light to dark gray, silicic welded tuff of the Jurassic (?) Peavine sequence. Epidote is ore common in these rocks in the vicinity of the mine, and a small exposure of interbedded basalt (locally visicular) is strongly epidotized and contains sparse brown garnet. The veins are reportedly gold-bearing (Hudson, 1977). Vein attitudes are not obvious although Bonham (1969) reports both parallel and cross-cutting attitudes. Black tourmaline occurs as breccia fillings, veinlets, and replacements associated with the mineralization. Veins are probably late-stage skarn-related. The contact metasomatic mineralization could be related to Cretaceous granodiorite or Jurassic magmatism coeval with the Peaine sequence volcanic and sub-volcanic rocks. Other similar copper prospects occur on Peavine Peak.
REMARKS: Sample 3333 is select sulfide material from a small ore pile - pyrite, bornite, and quartz. Samples from other areas in the Verdi 7-1/2' quandrangle of probably related mineralization include the following: 3332, 486.
Sample 4122 is select quartz vein matter from pits and old adits
SAMPLE SITE: 3333, 4122
REFERENCES: Hudson (1977)
EXAMINER: L. J. Garside
DATE VISITED: 9-17-85; 6-22-89
Attachment:

PROPERTY NAME: Redelius copper prospects
OTHER NAMES: Big Ledge property
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): copper, gold, silver
TYPE OF DEPOSIT: skarn; vein
QUAD SHEET: Reno NW
OWNERSHIP:
SEC: 2 ,T: 20N ,R: 18E
North: 4390930 East: 249120
PRODUCTION: A few tons of copper ore (see Bonham, 1969)
HISTORY:
DEVELOPMENT: Two shallow inclined shafts, one caved. One large dozer cut.
GEOLOGY: Oxide copper minerals occur in association with a quartz-tourmaline vein which cuts altered and sheared granodiorite or granodiorite porphyry (Mesozoic). The vein trend is
northerly and high?-angle. Bonham (1969) reports an attitude of the vein as N20W, 30 degrees-40 degrees SW, Malachite, sparse chalcocite, milky quartz and black tourmaline are found in outcrop and on the dumps. Bornite was observed in a few samples, and sparse carbonate (calcite?) was observed in vein samples. Chlorite is common in the wallrock. Mineralization is probably similar and related to that at the Red Metals mine and adjacent prospects on Peavine Peak.
REMARKS: Sample 3315 is select, milky quartz and black tourmaline with some iron-stained granodiorite. Malachite occurs locally and one piece contains chalcocite and malachite.
Sample 4121 is select milky vein quartz with tourmaline, malachite, and bornite.
SAMPLE SITE: 3315, 4121
REFERENCES: Bonham, H. F., Jr. (1969) Geology and mineral deposits of Washoe and Storey Counties, Nevada: Nevada Bureau of Mines and Geology, Bulletin 70, p. 80.
EXAMINER: L. J. Garside
DATE VISITED: 7-29-86; 6-22-89
Attachment:

PROPERTY NAME: Reno May prospect (?)
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Epithermal, enargite-gold
QUAD SHEET: Reno
OWNERSHIP:
SEC: 34 ,T: 20N ,R: 19E
North: 4382167 East: 255664
PRODUCTION: None
HISTORY:
DEVELOPMENT: Short adit and several shallow prospect pits. This silicified zone to the north in 1988 (Don Hudson, oral communication, 1988).
GEOLOGY: Workings explore the southeast margin of a northeast-trending irregular silicified and hydrothermally brecciated zone in tertiary alta andesite. Strong limonite-hematire concentrations are found in silicified rocks at the surface and the last rocks from the short adit are strongly argillized and pyritized rock. The adit portal is caved.
REMARKS: Photo 13 is of the dump of the adit with red abandoned car on it. Sample 3448 is grab argillized and pyritized "rock" (really just clay) from dump. Some clay could be expansive. Sample 3449 is select pieces of float from the silicified ledge that contain very strong limonite-hematite.
SAMPLE SITE: 3448, 3449
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-30-89
Attachment:

PROPERTY NAME: Reno Mizpah mine
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold(?)
TYPE OF DEPOSIT: Epithermal, silicified fault zone
QUAD SHEET: Reno
OWNERSHIP: Saga Exploration (1988)
SEC: 27 ,T: 20N ,R: 19E
North: 4383653 East: 256437
PRODUCTION:
HISTORY: The very limited workings suggest that the mine name is mislocated or misapplied on the topographic map.
DEVELOPMENT: Several shallow (less than 2m) pits.
GEOLOGY: A shallow pit is dug on a N50E, 45 degree SE silicified zone in somewhat less altered tertiary alta andesite. The zone is about 25cm wide and is characterized by strong iron-oxide concentration and porous, silica replacement.
REMARKS: Sampe 3443 is grab from the outcrop of the mineralized zone.
SAMPLE SITE: 3442
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-22-89
Attachment:

PROPERTY NAME: Section 8 shaft
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): copper, gold (?)
TYPE OF DEPOSIT: skarn; vein
QUAD SHEET: Reno NW
OWNERSHIP:
SEC: 8 ,T: 21N ,R: 18E
North: 4398745 East: 243782
PRODUCTION: None or minor
HISTORY:
DEVELOPMENT: Shaft (10-20?m deep), adit (20m?).
GEOLOGY: Workings at this property explore a N40W, 85SW quartz-tourmaline vein which cuts metavolcanic rocks. The vein is commonly 10cm wide and consists of white quartz with iron and copper oxide minerals (limonite, chrysocolla, copper pitch) and a few sparse sulfide remnants (pyrite, chalcopyrite?). Black tourmaline (schorlite?) occurs as thin seams in the vein; as small masses, and as black needles in white quartz adjacent to seams and veinlets. Tourmaline seams in quartz are locally slickensided. Sericitic alteration of the wallrock occurs locally immediately adjacent to vein material. Epidote and quartz-epidote occurs locally in the wallrock separate from the vein. Magnetite was also identified in vein matter. The wallrock is a greenish gray, relatively crystal poor rock which probably has a protolith of vitric-lithic welded tuff. Small (1cm) rock fragments and probable sparse frammel(?) suggest the pyroclastic origin. The vein is very close to a contact with a probable intrusive rock. This rock is either a subvolcanic granodiorite porphyry or intrusive? porphyritic dacite. The rock is quite phenocryst rich; if it has an aphanitic ground mass it is not obvious in hand sample. Clevage in the tuff (which may parallel original compaction foliation is N30E, 35 degrees SE.
REMARKS: Photo 29 is of dump of shaft; Peavine Peak in far distance. Sample 4506 is select quartz vein matter from dump.
SAMPLE SITE: 4506
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 7-19-89
Attachment:

PROPERTY NAME: Updike mine
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Epithermal, enargite-gold
QUAD SHEET: Reno
OWNERSHIP:
SEC: 34 ,T: 20N ,R: 19E
North: 4382372 East: 256050
PRODUCTION: None?
HISTORY:
DEVELOPMENT: Topographic map shoes two shafts; moderate-sized dump probably came from caved adit with probable trend of N70 degree W. Also, 250m north-northwest another shorter adit.
GEOLOGY: The mineralization at the southern workings is localized in argillized and iron-stained tertiary alta andesite. No sulfides noted; no obvious mineralized structure. Possibly following along trendof argillized and bleached andesite to the southeast. Workings 250m north-northwest consist of a small yellow-white dump from an adit whose portal is completely caved. The dump material is alunitized and argillized tertiary alta andesite with local moderate to strong pyritization. Alunite here could probably be age dated. This adit apparently explores a silicified and alunitized "ledge" exposed up the canyon to the north. This adit is too small to have had any production.
REMARKS: Sample 3445 consists of grab argillized andesite with common gypsum; from the dump. Photo 11 is of the dump at sample site 3445. Photo 12 is of white dump 250m to the north-northwest with silicified zone on ridge above. This is sample site 3446. Sample 3447 is collected from a small silicified hydrothermal breccia zone exposed in a small prospect pit which is surrounded by propylitized alta. The hydrothermal breccia trends N30 degree W, 90 degrees.
SAMPLE SITE: 3445, 3446, 3447
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-30-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): unknown
TYPE OF DEPOSIT: N.A.
QUAD SHEET: Reno NW
OWNERSHIP:
SEC: 11 ,T: 21N ,R: 18E
North: 4398500 East: 248890
PRODUCTION: None
HISTORY:
DEVELOPMENT: A shaft with small dump. Shaft is probably less than 7m deep, and has been filled with junk after caving.
GEOLOGY: The single shaft is in lencocratic granodiorite (cretaceous?), which is porphyritic and slightly foliated (primary?). No obvious reason for the shaft was observed. A very few pieces of quartz-tourmaline veining in granidoirite were noted on the dump, but they contain no iron oxides or sulfide minerals.
REMARKS: No sample
SAMPLE SITE:
REFERENCES:
EXAMINER: L.J. Garside
DATE VISITED: 7-28-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): copper, gold (?)
TYPE OF DEPOSIT: skarn; vein
QUAD SHEET: Reno NW
OWNERSHIP:
SEC: 8 ,T: 21N ,R: 18E
North: 4398745 East: 243782
PRODUCTION: None or minor
HISTORY:
DEVELOPMENT: Shaft (10-20?m deep), adit (20m?).
GEOLOGY: Workings at this property explore a N40W, 85SW quartz-tourmaline vein which cuts metavolcanic rocks. The vein is commonly 10cm wide and consists of white quartz with iron and copper oxide minerals (limonite, chrysocolla, copper pitch) and a few sparse sulfide remnants (pyrite, chalcopyrite?). Black tourmaline (schorlite?) occurs as thin seams in the vein; as small masses, and as black needles in white quartz adjacent to seams and veinlets. Tourmaline seams in quartz are locally slickensides. Serrcitic alteration of the wallrock occurs locally immediately adjacent to vein material. Epidote and quartz-epidote occurs locally in the wallrock separate from the vein. Magnetite was also identified in vein matter. The wallrock is a greenish gray, relatively crystal poor rock which probably has a protolith of vitric-lithic welded tuff. Small (1 cm) rock fragments and probable sparse fiamme(?) suggest the pyroclastic origin. The vein is very close to a contact with a probable intrusive rock. This rock is either a subvolcanic granodiorite porphyry or intrusive? porphyritic dacite. The rock is quite phenocryst rich; if it has an aphanitic groundmass it is not obvious in land sample. Clevage in the tuff (which may parallel original compaction foliation) is N30E, 35 degrees SE.
REMARKS: Photo 29 is of dump of shaft; Peavine Peak in far distance. Sample 4506 is select quartz vein matter from dump.
SAMPLE SITE: 4506
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 7-19-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: skarn; vein
QUAD SHEET: Verdi
OWNERSHIP:
SEC: 22 ,T: 20N ,R: 18E
North: 4385800 East: 247300
PRODUCTION: None
HISTORY:
DEVELOPMENT: Bulldozer cuts
GEOLOGY: Magnetite, black tourmaline, and limonite gossan boxworks occur along a N30E, 90 degree zone in meta-rhyolite (Mesozioc Peavine sequence). The zone is up to 1-3m in width and is exposed in the lower of two bulldozer trenches. The boxworks may represent original pyrite. The metarhyolite is epidotized. The tourmalized zone is locally cut by white alteration, possibly albite. Local bleaching of the rocks could be due to supergene acid leaching. Similar tournmalines or tourmaline-magnetire mineralization is present elsewhere on Peavine Peak. Sparse malachite is present at this locality; copper sulfides are probably present in unoxidized ore.
REMARKS: Sample 3318 is select limonite, magnetite, schorlite and malachite from a dump and pit. Sample 3329 of similar material in float 3.5 km to the southeast. Also, sample 482. Sample 485 is essentially a duplicate of 3318, although it is not a split.
SAMPLE SITE: 3318
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 8-4-83
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold (?)
TYPE OF DEPOSIT: Vein
QUAD SHEET: Reno NW
OWNERSHIP:
SEC: 4, 5 ,T: 20N ,R: 18E
North: 4390387 East: 244372
PRODUCTION: None(?)
HISTORY:
DEVELOPMENT: Four short adits (3 at site 4140, one possibly 50m) all caved at portal, numerous prospect pits. One adit is at site 4142. Bulldozer cuts at site 4141. Only the bulldozer cuts are shown on the topographic map.
GEOLOGY: The rocks in the vicinity of the prospects on the north flank of Peavine Peak consist of welded tuffs of the Jurassic(?) Peavine sequence. The welded tuffs are medium purplish gray weathering dark gray rocks which represent metamorphosed (green schist facres) rhyodacitic ignimbrites. The ignimbrites have a light-colored silicic matrix with phenocrysts of pink to white albitized plagroclase, sanidine?, and probably originally biotite. No phenocrystic quartz was observed. The tuffs generally contain compacted pumice and lithic fragment, and are moderately crystal-rich. Lithic content varies from low to high, and consists mainly of fragments of andesite and related intermediate-composition volcanic rocks; quartz phenocrysts are generally absent in the lithic fragments as well. Lithics are generally about 1 cm in average size, locally pumice is up to 15cm long and 2cm thick; usually it is 1-2cm long.
At sample site 4140 a quartz-tourmaline vein with sparse copper mineralization is explored. Although no vein attitude can be determined because of poor outcrop the workings trend toward site 4142 (a N35E trend) when similar vein mineralization is observed. Vein matter observed on dumps (cont attachment)
REMARKS: Samples 4140, 4141 and 4142 are of select quartz-tourmaline vein matter from several veins in a mineralized area of about 0.25 km2. Oxide copper minerals occur in some samples, as well as iron and manganese oxide minerals.
SAMPLE SITE: 4140, 4141, 4142
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 7-7-89
Attachment: is white, coarsely crystalline quartz with up to 50% black tourmaline (schorlite). Vein matter is crust; forms and also occurs as breccia-fillings. Rare clots of epidote occur, and coarse serricite (muscovite) veinlets up to 3mm wide are apparently associated with mineralization. Oxide copper minerals (malachite, slickenside). No magnetite was observed. Wallrock is greenish-gray lithic-rich welded tuff (rhyodacite) vein matter up to 20cm wide noted on dump.
Site 4141 is similar to 4140; chrysocolla occurs as fracture-coatings and fillings in a fault zone in welded tuff lite that at 4140. The oxide copper minerals occur locally in sparse quartz-tourmaline vein matter on dumps. No attitude of vein or fault can be determined.
Site 4142 is a possible continuation of the vein at 4140 and is similar, except only limonite is noted (no copper). A portion of one vein trends N15E, 90 degrees(?); another is due N, 45 degrees E.

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold (?), copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Reno NW
OWNERSHIP:
SEC: 9 ,T: 20N ,R: 18E
North: 4388432 East: 245972
PRODUCTION: None(?)
HISTORY:
DEVELOPMENT: Several prospect pits up to 3m deep.
GEOLOGY: Iron oxide minerals (magnetite and limonite gossan) occur along an east-west trending high-angle(?) zone in light-gray weathering lithic rhyolite welded tuff of the Peavine sequence. The mineralized zone is about 1m wide where observed in one pit. Quartz and black tourmaline (shorlite) occur in the zone, and locally coarsely crystalline epidote is associated with magnetite and quartz. Sparse oxide copper minerals (chrysocolla, copper pitch) occur in the limonite gossan. No sulfide minerals were observed. Muscovite occurs in the walks of the vein, apparently as an alteration mineral. Piemontite-rich areas in welded tuff occur about 100m to the west of the locality.
REMARKS: Sample 4143 is grab gossan and vein matter from dumps. Photo 28 is of pit and white truck.
SAMPLE SITE: 4143
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 7-7-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Epithermal, enargite-gold
QUAD SHEET: Reno
OWNERSHIP:
SEC: 28 ,T: 20N ,R: 19E
North: 4384209 East: 254710
PRODUCTION: None
HISTORY:
DEVELOPMENT: Three small dumps from caved adits.
GEOLOGY: Shallow workings here (site 4104) encountered sulfides at shallow depths in silicified andesite. This prospect is at the east end of a long hill of prospected and altered rock which trends approximately east-west. The prospects are located near a zone of lag boulders and outcrop of very limonite-rich (hydrothermally?) brecciated silicified andesite (alta andesite). Enargite is rare on the dump; well-crystallized pyrite is extremely common. Presumably the silicified zone preserved sulfides at shallow depths from supergene oxidation. Pyrite is also common at sample site 4105, 750m north. Sample site 4106 800m west of site 4104 is along the east-west trending ridge and altered zone. There, a N15W high-angle cross structure has a very small amount of "stoping" or exploration along it in silicified and limonite impregnated andesite (alta). About 600m west of site 4106, similar alteration is noted.
REMARKS: Sample 4104 is grab pyritized and silicified andesite from dump. Sample 4105 is select pyritized, argillized, and silicified andesite from dump of shallow caved shaft 705m north (no mineralized structure observed). Sample 4106 is select silicified and limonite encrusted andesite from a n15W high-angle fault zone. Sample 4102 is a similar sample from a dump of a 15-meter shaft 600m east of site 4106.
SAMPLE SITE: 4104, 4105, 4106
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Epithermal, enargite-gold
QUAD SHEET: Reno
OWNERSHIP:
SEC: 17 ,T: 20N ,R: 19E
North: 4386580 East: 253495
PRODUCTION: None
HISTORY:
DEVELOPMENT: Several very shallow pits and short adits.
GEOLOGY: A small grove of Jeffery Pine grows on an altered area in Mesozoic meta-andesite. Unoxidized rocks from dumps are pyritized and silicified. Soils are too acid for other plants; Jeffery Pine have an advantage here but are otherwise ecologically out of place. Hydrothermal breccias with 1-8 cm fragments of rounded (milled) andesite are locally common. Pyrite is only sulfide noted; a very few 2mm quartz veinlets were noted. No mineralized trend or structure was noted.
REMARKS: Sample 4108 is select pyritized and silicified meta-andesite from a dump. Photo 19 is of hydrothermal breccia (hammer for scale; photo 18 is of dump and Jeffery Pine.
SAMPLE SITE: 4108
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT:
QUAD SHEET: Reno
OWNERSHIP:
SEC: 27 ,T: 20N ,R: 19E
North: 4383516 East: 255697
PRODUCTION: None
HISTORY:
DEVELOPMENT: Several shafts and pits, 1-4m deep.
GEOLOGY: A bleached and silicified zone in tertiary andesite has been prospected by numerous shallow (1-4m) shafts and pits. The zone trends N30E, is about 100m long and 20m wide. One fault? exposed in a shaft is near vertical. The rocks are locally strongly stained with limonite. Silicification usually has destroyed all textures, but in one area remnant flow banding(?) was observed. Drusey quartz occurs with limonite in irregular veins which are either flat or high-angle and cannot be traced far.
REMARKS: Sample 3450 is select drusy quartz vein matter and silicified andesite from dump and outcrop.
SAMPLE SITE: 3450
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-30-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Verdi
OWNERSHIP:
SEC: 32 ,T: 20N ,R: 19E
North: 4382780 East: 252950
PRODUCTION: Probably minor
HISTORY:
DEVELOPMENT: Adits and shafts
GEOLOGY: Workings in argillized Mesozoic intermediate composition metavolcanic rock. The mineralized structure may follow the trend of the workings, N50-60 degrees W, although the mineralized zone is not obvious. Probably advanced argillic alteration is present as well. Highly pyritiferous material is present on the dumps, as well as white vein quartz and black tourmaline, which is intergrown with pyrite.
REMARKS: Sample 3321 is of select pyrite and vein quartz from a dump of an adit caved at the portal. Other samples of similar vein and altered wallrock from area on the southern flank of Peavine Peak include: 3322, 3323, 3401, 3402, 3406, 3407.
SAMPLE SITE: 3321
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 4-22-85
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): copper, gold(?), silver (?)
TYPE OF DEPOSIT: skarn; vein
QUAD SHEET: Verdi
OWNERSHIP:
SEC: 22 ,T: 20N ,R: 18E
North: 4385800 East: 247300
PRODUCTION: None
HISTORY:
DEVELOPMENT: Bulldozer cuts

GEOLOGY: Magnetite, black tourmaline, and limonite gossan boxworks occur along a N30E, 90 degree zone in meta-rhyolite (Mesozoic Peavine sequence). The zone is up to 1-3m in width and is exposed in the lower of two bulldozer trenches. The boxworks may represent original pyrite. The metarhyolite is epidotized. The tourmalized zone is locally cut by white alteration, possibly albite. Local bleaching of the rocks could be due to supergene acid leaching. Similar tourmaline or tourmaline-magnetite mineralization is present elsewhere on Peavine Peak. Sparse malachite is present at this locality; copper sulfides are probably present in unoxidized ore.

REMARKS: Sample 3318 is select limonite, magnetite, schorlite and malachite from a dump and pit. Sample 3329 of similar material is float 3.5 km to the southeast. Also, sample 482. Sample 485 is essentially a duplicate of 3318 although it is not a split.

SAMPLE SITE: 3318, 0485
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 8-4-83
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold(?)
TYPE OF DEPOSIT: Fracture coatings(?)
QUAD SHEET: Verdi
OWNERSHIP:
SEC: 18 ,T: 20N ,R: 19E
North: 4387280 East: 252480
PRODUCTION: Very small
HISTORY: Within the last 10(?) years a small attempt was made to vat leach mineralized rock from the open cuts, presumably with cyanide.
DEVELOPMENT: Open cuts
GEOLOGY: Iron oxide minerals and very sparse green oxide copper minerals occur as fracture coatings on slightly argillized to fresh Mesozoic granodiorite. Nearby alteration occurs in tertiary rocks. The age and type of mineralization here are unknown.
REMARKS: Sample 3331 is of select and grab granodiorite with iron and copper oxide minerals.
SAMPLE SITE: 3331
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 8-9-85
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Peavine
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Epithermal, enargite-gold
QUAD SHEET: Reno
OWNERSHIP:
SEC: 27 ,T: 19N ,R: 19E
North: 4383407 East: 256809
PRODUCTION: Minor or none
HISTORY: There is a possibility that these workings are the Reno Mizpah, rather than the minor prospects that are shown as that mine upstream.
DEVELOPMENT: Two adits (caved) about 200m apart, with moderate-sized dumps.
GEOLOGY: Pyrite and enargite (by x-ray diffraction) occur with strong silicification and quartz veining in samples from 2 dumps (enargite? only noted on south dump). The wallrock is silicified and argillized andesite. Alunite(?) may be present. The caved adits trend into a hillside and northeast-trending ridge which may be the mineralized structure, although little can be seen at the surface. The amount of pyrite in dump samples is quite a bit greater than the average of sulfide mineralization in the Wedekind mine area and near the Desert Research Institute. This suggests a possible zoning of pyrite, with greater amounts on the south and southeast flank of Peavine Park (including this are south of Raleigh Heights).
REMARKS: Sample 3443 is select vein and pyritized wallrock material from the north adit; 3444 from the south.
SAMPLE SITE: 3443, 3444
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-22-89
Attachment:

PROPERTY NAME: Belleville mine
OTHER NAMES: Belleville Belle mine
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, mercury, zinc
TYPE OF DEPOSIT: Vein
QUAD SHEET: Eddyville
OWNERSHIP: Unknown
SEC: ,T: 6N ,R: 36E
North: 4243544 East: 412975
PRODUCTION: Productive in 1916
HISTORY: Discovered by Charles Woodruff in 1928, reported to have had small production of gold and mercury.
DEVELOPMENT: Reported to have been 3000 foot of workings that are not accessible. Extensive dozing in the area of the adits; old mill and cabins.
GEOLOGY: Badly-fractured and partly-brecciated, limey metasediments above and west of contact with granite (approximately 300 feet) which is also strongly faulted. Principal workings were south-trending adits above a small mill that appears to have had limited use. Adits were probably connected to upper shaft. Brecciation occurs along structures.
REMARKS: Photo #1
SAMPLE SITE: 3500, 3501
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-3-89
Attachment:

PROPERTY NAME: Bettles mine
OTHER NAMES: Bettles Mine claims
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Bettles Well
OWNERSHIP: Two locals from Mina staked the area in 1984 and are advertising with signs.
SEC: ,T: 6N ,R: 36E
North: 4248198 East: 412782
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: The only workings that I could find were prospect trenches.
GEOLOGY: The area of the prospect trenches is in sandstone were some breccia and gouge appear to have been the exploration target. There was no visable mineralization nor evidence of production although some apparent ore was stacked in the steam course below the road. Most of the material appears to have come from the prospect.
REMARKS:
SAMPLE SITE: 3521
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Coveney mine
OTHER NAMES: Coveney prospect
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Bettles Well
OWNERSHIP: Clay Coveney of Mina ??
SEC: ,T: 6N ,R: 36E
North: 4248039 East: 418086
PRODUCTION: Reported to be a few flasks
HISTORY: Discovered sometime before the 1940's and not worked since.
DEVELOPMENT: The workings consist of a single caved adit and remnants of a camp site.
GEOLOGY: The N20W adit was driven on a thin, light-tan limey, shaley sediments that are partly silicified. The caved adit was probably following a fault from which gouge material was being mined? There was no visable mineralization.
REMARKS: Photo 16
SAMPLE SITE: 3512
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Desert Scheelite mine
OTHER NAMES:
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Dicalite Summit
OWNERSHIP: Unknown
SEC: ,T: 6N ,R: 37E
North: 4248041 East: 424010
PRODUCTION: Reported to be small
HISTORY: Discovered before the 1940's and worked intermittently thereafter.
DEVELOPMENT: The main workings are an open pit but there are many hundreds of feet of trenchs along the contact zone some of which were mined.
GEOLOGY: Highly fractured cherts, skarn and limey sediments in contact with granite form a 50 foot wide skarn zone that has been open pitted to the north. The pit is about 150 x 40 x 30 feet high. Much of the ore has been stockpiled to the north near the road to the workings. The sample was taken at random from the stockpile.
REMARKS: Photo 5, 6, 7
SAMPLE SITE: 3505
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-4-89
Attachment:

PROPERTY NAME: Drew mine
OTHER NAMES:
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury, lead, gold, silver (?)
TYPE OF DEPOSIT: Replacement; disseminated
QUAD SHEET: Bettles Well
OWNERSHIP:
SEC: ,T: 6N ,R: 36E
North: 4248259 East: 418878
PRODUCTION: Reported to have been 1000 flasks.
of drifts and crosscuts. More recent dozing and drilling.
HISTORY: Discovered in 1914, main production before 1920, and sporadically thereafter until 1943. Dozing and drilling in the area at some later date.
DEVELOPMENT: Reported to have been one inclined shaft (caved) about 10 ft. down and three levels from the shaft. The incline was about 70 ft. deep with 120 ft of drifts and crosscuts. More recent dozing and drilling.
GEOLOGY: The workings follow thrust and normal faults in limey shales and fresher Luning limestone. The ore occurred as replacement bodies within and along the shears. Some of the ore was highly silicified and the contact zones show strong hydrothermal action. Some of the ore was gouge-like but both types has visable red cinnabar. Most of the new dozing and drilling is west of the old incline. Several cabins are still standing but nothing but tailings are left of the mill.
REMARKS: Photo 14
SAMPLE SITE: 3510
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Eddyville mine
OTHER NAMES:
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Eddyville
OWNERSHIP: Staked in December of 1988 by Willard Inlow for International Gold Productions
SEC: ,T: 5N ,R: 36N
North: 4241554 East: 415346
PRODUCTION: Small
HISTORY: Discovered and worked by man from Mina
DEVELOPMENT: Old workings in the central portion of the camp have been partially bulldozed. The older workings are caved in part and are in bad repair.
GEOLOGY: The areas being mined were in fine-grained, dark-gray metasediments with minor chert, near the contact with altered granite. Mineralization of interest was gold found along narrow fractures. There was very little quartz. The working appear to be in excess of fifty years in age.
A shaft near the top of the hill was on the newly-staked Cloud #3 claim. The shaft was on a NW bearing fault that yielded limonite-stained, silicified breccia.
REMARKS: Photos 3 & 4
SAMPLE SITE: 3502, 3503
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-4-89
Attachment:

PROPERTY NAME: Good Hope mine
OTHER NAMES:
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Dicalite Summit
OWNERSHIP: Unknown
SEC: ,T: 6N ,R: 37E
North: 4249423 East: 424015
PRODUCTION: Unknown
HISTORY: Deposit and size of workings suggest it was more of a prospect than a mine.
DEVELOPMENT: Several very shallow adits and a narrow trench along vein.
GEOLOGY: The adits cross cut the N60W, 85 degree SW-dipping vein in granite near the contact with older metasediments. The vein contains copper oxides, sulfides and pyrite. There is very little development work and only limited exploration.
REMARKS: Photo 10 and 11
SAMPLE SITE: 3507
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-4-89
Attachment:

PROPERTY NAME: Gunmetal mine
OTHER NAMES: Silver Tungsten King mine
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Bettles Well
OWNERSHIP:
SEC: ,T: 6N ,R: 37E
North: 4248947 East: 422450
PRODUCTION: The exact amount is unknown.
HISTORY: Was in production during WW I
DEVELOPMENT: Three open pits and about 1000 feet of underground workings plus the area has been extensively drilled and the core is stored on site.
GEOLOGY: Almost flat-lying limey sediments overlie and are in contact with a granite scheelite-bearing skarn was mined from both open cuts and from adits. An old ore hopper still intact was fed ore from different levels at the same time. The property has numerous smaller workings and prospects covering almost a half mile in width.
A small mill and cabins are still standing.
REMARKS: Photo 5, 8, 9
SAMPLE SITE: 3506
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-4-89
Attachment:

PROPERTY NAME: Hasbrouck mine
OTHER NAMES: Mercury King claims and B & B
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Eddyville
OWNERSHIP: Property covered by the Mercury King claims within the last several years.
SEC: ,T: 6N ,R: 36E
North: 4247137 East: 413481
PRODUCTION: Unknown
HISTORY: Discovered around 1930.
DEVELOPMENT: A 40 foot incline, several open-pits, three or prospects, and an adit which is still tracked and not caved, and adjacent to a wooden ore bin and loading shoot.
GEOLOGY: The host rocks locally are sandstones and conglomerates of the Dunlap Formation which strike to the west and dip to the south. The workings are along bedding shears and at least one normal fault that the N45 degree W-bearing adit follows. Sample 3519 was taken from the fault zone and the loading shoot.
REMARKS: Photo 2
SAMPLE SITE: 3519
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Hitt mine
OTHER NAMES:
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Eddyville
OWNERSHIP: Bert Hitt of Mina, Nevada
SEC: ,T: 6N ,R: 36E
North: 4246633 East: 413237
PRODUCTION: Forty six flasks were produced by 1943
HISTORY: Discovered in 1929 but did not produce until the second world war and was closed by 1943.
DEVELOPMENT: Two adits and about 500 feet of underground workings. The old ore bin and loading shoot are still in place as is the retort.
GEOLOGY: The workings are along shears in conglomerates and sandstones of the Dunlap Formation. The production was very low when compared to the size of the workings. Mineralization occurred with the gouge and sandstone members as disseminated bodies.
REMARKS: Photo 3
SAMPLE SITE: 3520
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Keg mine
OTHER NAMES: Keg prospect
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Bettles Well
OWNERSHIP: Anderson and Spencer of Mina (1941)
SEC: ,T: 6N ,R: 36E
North: 4247977 East: 417205
PRODUCTION: Reported to be small but I believe there was more than was reported.
HISTORY: Before 1917
DEVELOPMENT: A partly caved 75 foot incline an adit several prospects an open excavation and several prospects. The dump near the adit was quite large. Several cabins are still standing near the bottom of the hill.
GEOLOGY: The incline was sunk along the dip slope (45 degrees) to the north in tan-colored, thin bedded limey shales that may have been faulted. A considerable amount of high-quality cinnabar was sampled from the loading shoot and dump. The loading shoot appears to have had a good deal of wear. The ore may have been prossed across the canyon at the Mina mine mill, as there was no retort on the property.
REMARKS: Photos 17 & 18
SAMPLE SITE: 3513
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Lakeview mine
OTHER NAMES: Lakeview prospect
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Bettles Well
OWNERSHIP: Chong Wong Estate, executor in Reno, NV
SEC: ,T: 6N ,R: 36E
North: 4249569 East: 419458
PRODUCTION: Unknown. If any it was small
HISTORY: Discovered in 1919 by Jong Shore Wong and worked by lessors in the 1940's. Considerable work but next to no production. No tails below retort.
DEVELOPMENT: A 200 foot adit with connecting workings, another 200 foot adit to the south scattered prospects and a retort.
GEOLOGY: The main adit was driven on a N65W 80SW-dipping shear and another adit to the south. The associated dumps had no visable ore and the retort had no tailings. A few scattered limestone fragments were coated with calcite andgouge but no visable cinnabar.
Ore was reported to have been very small pockets of high-grade along and within fault gouge.
REMARKS: Photo 15
SAMPLE SITE: 3511
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Mammouth mine
OTHER NAMES:
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Bettles Well
OWNERSHIP: A wife and husband from Mina have a For Sale sign on the property.
SEC: ,T: 6N ,R: 36E
North: 4247705 East: 414157
PRODUCTION: Reported to be 52 flasks by 1942.
HISTORY: Mine was discovered in 1929 by Ted Mace and worked by different owners until 1943.
DEVELOPMENT: Although presently caved the original workings were reported to be two adits with drifts and crosscuts totalling about 380 of workings, and two glory holes.
GEOLOGY: The workings are along faults in interbedded conglomerate and sandstone of the Dunlap Formation. The ore was reported to have occurred as cinnabar in clay gouge and in calcite veinlets of the country rock adjacent to the faults. There are almost no tailings associated with the existing retort. Sample 3518 was taken from the loading shoot that contained no visable mineralization.
REMARKS: Photo 1
SAMPLE SITE: 3518
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Mina mine
OTHER NAMES: Mina Development Co. mine, Cinnabar King
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Eddyville
OWNERSHIP: Anderson and Spencer of Mina (1941).
SEC: ,T: 6N ,R: 36E
North: 4247479 East: 417192
PRODUCTION: Over 3000 flasks - the biggest in the district.
HISTORY: The mine was operated by at least 5 different groups from 1918 until 1943.
DEVELOPMENT: Workings consist of about 5000 feet of drifts and crosscuts on seven levels, the lowest of which was 210 feet below a glory hole. A large milling and processing facility still intact. Six cabins.
GEOLOGY: The host rocks are interbedded limestones and shales of the Dunlap formation, which strike northwesterly and dip moderately to the northwest. The ore bodies were located at fault intersections in the limestone. The richest ore bodies occurred as replacement ore and filled fissures. A second type of deposition filled only cracks in the limestone and a third type was associated with fault gouge. Examples of the ore can be found in and around a small crushing facility still intact and housed within the mill. The crusher was supplied ore from the main adit via a still intact rail system. Cinnabar crystals were present in all of the different types of ore.
REMARKS: Photos 17 & 20
SAMPLE SITE: 3514
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Mosier mine
OTHER NAMES: Mosier Mercury mine
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury, turquoise
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Eddyville
OWNERSHIP: Carl Mosier of Gardena, Calif.
SEC: ,T: 6N ,R: 36E
North: 4247110 East: 416930
PRODUCTION: Unknown but thought to be very small
HISTORY: Area prospected around 1918 but the present workings are largely dozer work.
DEVELOPMENT: Two short inclines several short adits and upper pit and several different levels of trenching. A small retort and a lower storage. Considerable road building and dozing above the property to the south.
GEOLOGY: The cinnabar was not visable from any of the workings, the dumps or around the retort, nor in any of the upper pits and prospects. There were no tails below the retort. Low grade turquoise was reported in the upper volcanics as nodules or veinlets up to an inch thick.
REMARKS: Photo 18 & 19
SAMPLE SITE: 3515
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Reward mine
OTHER NAMES: Kane Leighton Cinnabar mine
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Eddyville
OWNERSHIP: D. H. Grey and Bonner estate of San Francisco, California
SEC: ,T: 6N ,R: 36E
North: 4246360 East: 415660
PRODUCTION: Over 500 flasks reported
HISTORY: Discovered in 1928 and operated until 1942 by 13 different owners.
DEVELOPMENT: The workings consist of at least 5 adits and the southern one is reported to have 350 feet of drifts and crosscuts. Many smaller workings exist on the nine claims. Some cabins are still intact across the drainage.
GEOLOGY: The maps show the area to be overlain by sandstones, quartzite and conglomerate of the Dunlap Formation, all of which are cut by faults locally. The workings are along these faults and the ore was reported to favor the sandstone associated with hanging wall side of the main northerly trending 45 degree dipping fault. Examples of this sandstone and bright-red cinnabar crystals were collected near two of the three retorts still present on the property. Most of the workings are now caved but the construction work is still standing.
REMARKS: Photos 21 & 22
SAMPLE SITE: 3516
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Tiffany Mine
OTHER NAMES:
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): gem stone (turquoise)
TYPE OF DEPOSIT: vein and nodule turquoise
QUAD SHEET: Kibby Flat
OWNERSHIP: Unknown
SEC: ,T: 6N ,R: 37E
North: 4242496 East: 423876
PRODUCTION: None reported
HISTORY:
DEVELOPMENT: Older workings were completely dozed into extinction.
GEOLOGY: Metasandesite and rhyolite capping chert. Older workings apparently explored structures without apparent success. Some turquoise visable. Sample was taken from the structures and what remained of dump material.
REMARKS: Photo #4
SAMPLE SITE: 3504
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-4-89
Attachment:

PROPERTY NAME: Warlock mine
OTHER NAMES: Warlock prospect
MINING DISTRICT: Pilot Mountains
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Eddyville
OWNERSHIP: Unknown
SEC: ,T: 6N ,R: 36E
North: 4247040 East: 414558
PRODUCTION: Unknown
HISTORY: Looks to be from the era of the 1940's
DEVELOPMENT: Several N75 degree E adits, a retort and remnants of a camp.
GEOLOGY: The workings are along minor structures similar in direction and host rocks to the Reward Mine, but without any visable mineralization. The host rocks are dominantly sandstone and lessor conglomerates, probably Dunlap Formation. The very clean host-rock dumps and lack of tails associated with the retort suggest a mercury prospect that never made a mine.
REMARKS: Photo 23
SAMPLE SITE: 3517
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-5-89
Attachment:

PROPERTY NAME: Jones-Kincaid mine
OTHER NAMES:
MINING DISTRICT: Pyramid
COUNTY: Washoe
MINERAL COMMODITY(IES): copper, gold, silver
TYPE OF DEPOSIT: Silicified lode, enargite-gold
QUAD SHEET: Moses Rock
OWNERSHIP:
SEC: 22 ,T: 23N ,R: 21E
North: 4414163 East: 277319
PRODUCTION: Minor(?)
HISTORY:
DEVELOPMENT: Shaft, reported to be 150m deep. Bonham (1969) reports other workings associated with the mine.
GEOLOGY: A deep shaft explores a N60W, high angle zone of silicification and hydrothermal breccia in welded ash-flow tuff. Pyrite is common in dump samples of vein quartz or silicified wallrock, and also occurs as massive clots. Kaolinite? was noted in some samples, and is later than at least some pyrite. Although Bonham (1969) reports enargite, none could be found on the dump of the shaft. Presumably enargite was removed as ore.
REMARKS: Photo 20 is of the shaft collar. Sample 4137 consists of select pyrite-rich matter from the dump.
SAMPLE SITE: 4137
REFERENCES: Bonham, 1969; Wallace, 1975
EXAMINER: L. J. Garside
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Perry mine
OTHER NAMES: Jones-Kinkaid mine
MINING DISTRICT: Pyramid
COUNTY: Washoe
MINERAL COMMODITY(IES): copper, gold, silver
TYPE OF DEPOSIT: Vein, gold-enargite, epithermal
QUAD SHEET: Moses Rock
OWNERSHIP:
SEC: 22 ,T: 23N ,R: 21E
North: 4414550 East: 277200
PRODUCTION: Moderate
HISTORY:
DEVELOPMENT: Adit
GEOLOGY: A sample of massive sulfide ore (enargite-pyrite) was collected from the dump of the Perry adit. The mineralization and zoning are described in Wallace (1975) and Bonham (1969).
REMARKS: Sample 3351 was collected from a dump
SAMPLE SITE: 3351
REFERENCES: Wallace, A.B. (1975) Geology and mineral deposits of the Pyramid district, southern Washoe County, Nevada: Ph.D. Thesis, University of Nevada-Reno Bonham, H.F. Jr (1969) Geology and mineral deposits of Washoe and Storey counties, Nevada: Nevada Bureau of Mines and Geology Bulletin 70.
EXAMINER: L. J. Garside, H. F. Bonham, Jr.
DATE VISITED: 5-22-86
Attachment:

PROPERTY NAME: Ruth mine
OTHER NAMES:
MINING DISTRICT: Pyramid
COUNTY: Washoe
MINERAL COMMODITY(IES): copper, gold, silver
TYPE OF DEPOSIT: Epithermal, enargite-gold
QUAD SHEET: Fraser Flat
OWNERSHIP: Nearby claims: Pyr group, Mark E. Emerson Resource Exchange Corp., 131 W. 69th St., New York, NY 10025
SEC: 21 ,T: 23N ,R: 21E
North: 4414702 East: 274450
PRODUCTION:
HISTORY:
DEVELOPMENT: Two shafts with moderate-sized dumps
GEOLOGY: Silicification and pyritization occurs in silica welded tuffs of tertiary age. The trend of any mineralized structure is not obvious on the surface, but two shafts and an area of prospect pits are aligned in a N45SW zone.
REMARKS: Sample 4139 is select pyritized, silicified tuff and quartz vein matter from dump.
SAMPLE SITE: 4139
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Thunderbird claim
OTHER NAMES:
MINING DISTRICT: Pyramid
COUNTY: Washoe
MINERAL COMMODITY(IES): uranium
TYPE OF DEPOSIT:
QUAD SHEET: Moses Rock
OWNERSHIP:
SEC: 35 ,T: 23N ,R: 21E
North: 4410430 East: 277760
PRODUCTION: None
HISTORY:
DEVELOPMENT: Small bulldozer cut.
GEOLOGY: Yellow uranium minerals (uranophane?) occur along a tertonic? breccia zone which occurs in the basal portion of the Nine Hill Tuff an Oligocene ignimbrite. The breccia zone appears to have an attitude of N70E, 80 degrees SE, and is 5-6m wide. The most radioactive area is in the footwall? (north side) of the breccia zone. The background radioactivity is 200 cps; the highest recorded was 10,000 cps. Oxidized pyrite? was noted in some samples. The Nine Hill tuff is a vitric welded tuff with dark, elongate compacted pumice. Fluorine is reported to be high in samples from the prospect (Steve Hendricks, oral communication, 8 May 80).
REMARKS: Sample 3320 consists of select pieces of ash-flow tuff with yellow uranium minerals from a dump near the jeep trail. Rock sample RMB-23 nearby; Bonham's field note S-29.
SAMPLE SITE: 3320
REFERENCES:
EXAMINER: L. J. Garside, H. F. Bonham, Jr.
DATE VISITED: 7-30-86, 5-8-80
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Pyramid
COUNTY: Washoe
MINERAL COMMODITY(IES): copper, gold, silver
TYPE OF DEPOSIT: Epithermal, enargite-gold
QUAD SHEET: Moses Rock
OWNERSHIP:
SEC: 10 ,T: 23N ,R: 21E
North: 4416695 East: 277288
PRODUCTION: Minor
HISTORY:
DEVELOPMENT: A shallow shaft and stope to surface along a 40m zone of exposure.
GEOLOGY: A 1m wide silicified zone in rhyolitic welded tuff contains a considerable amount of pyrite, and sparse or rare enargitic (?) and barite, based on ore (?) samples at a loading dock. The mineralized zone trends N45W, 55-75SW. The stope is over 1m wide at the surface. Pyrite is partly oxidized to limonite. The mineralized zone can be followed for about 50m.
REMARKS: Sample 4138 is grab from an ore pile. Photo 20 is of the open stope.
SAMPLE SITE: 4138
REFERENCES: Wallace (1975)
EXAMINER: L. J. Garside
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Gooseberry mine
OTHER NAMES:
MINING DISTRICT: Ramsey
COUNTY: Storey
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Martin Canyon
OWNERSHIP: Originally owned by C.D. Martin, then by Apco Oil, now by Scurry-Rainbow, a division of West Coast Oil & Gas
SEC: 25 ,T: 19N ,R: 22E
North: 4373200 East: 288100
PRODUCTION: Probably slightly over 300,000 tons, based on tailings, this would be <2 million oz Ag & <50,000 oz Au
HISTORY: Property was developed by Martin, Apco did more work, was sold to Westcoast when mill was ordered
DEVELOPMENT: Vertical shaft to 1685 feet, older inclined shaft, numerous drifts and stopes; mill, offices, old houses from Martin operation; tailings dam, etc.
GEOLOGY: Precious metal mineralization at the Gooseberry mine occurs in an east-west-trending quartz and calcite vein which cuts propylitized hornblende andesite flows of the Tertiary Kate Peak Fm. (about 13my old). Adularia from the vein gives a date of about 10my, similar to a mineralization date at Talapoosa, and probably not too different from some Comstock Lode dates. The Kate Peak is propyliticaly altered over a large area, possibly unrelated to main-stage Gooseberry mineralization. The outcrop of the vein is quite unremarkable; a 1.5m-wide quartz and calcite vein at one locality, but only argillic fault zone (east-west) for 100-200m along strike. Clay minerals at the surface outcrop may result from acid leaching of wallrock by solutions formed by oxidation of pyrite in wallrocks adjacent to veins. Gypsum noted in the altered surface zone is probably supergene. Oxidation reportedly extends down to about the 500 ft level (some noted at 800 level). No mining has been done above that, and a part of the vein is still not well located in that area. Pyrite occurs in an envelope around the vein, and in lesser amounts (1-2%) in the vein. The outcrop of the vein usually ran less than 0.004 oz/ton Au and 1 oz/ton Ag. Better values were obtained by drilling 5-1-m below the surface. Ag is leached (see attachment)
REMARKS: Mine only makes 20-50 gallon per minute water at 1485 foot level, water for mill is piped from the Truckee River, mill is flotation; concentrates are cyanided; company reports 80% recovery, other rumors indicate as low as 50%, mill is 15 tons/hr, crusher 60tph, grind to 90% minus 200 mesh, float Ag sulfides, pyrite, free Au may not be recovered if not with pyrite. Precip. is 900 fine (rest is Zn from precip.), 88% Ag, 2% Au, 10% Zn. Tailings (300,000 tons?) constitute a resource of 1 oz Ag, 0.04?Au-possibly could be aggregated and heap-leached
SAMPLE SITE:
REFERENCES: NBMG Bulletin 70, 71; Royce, S., UNR thesis; Isochron/West age date article
EXAMINER: L. J. Garside
DATE VISITED: October 10, 1982

Attachment: from upper few hundred (?) feet. Ore minerals: free gold (also on or in(?) pyrite), acanthite, electrum, wire silver. The Au and Ag minerals are very fine-grained; some base-metal sulfides may be present in very minor amounts. The precious metals are confined to the veins, pyrite occurs as a halo up to 100m from the vein. There are several periods of quartz and calcite mineralization. The last, calcite-rich one is very low-grade, and mainly dilutes the ore. The east-west vein may be along a fault which is parallel to faults like the Carson Lineament, "Truckee Canyon" fault, etc. These could be conjugate antithetic, left-lateral faults to the right-lateral Walker Lane fault to the east. Faults with minor right-lateral separation do reportedly cut and offset the vein (usually 1-2m). The Kate Peak is at least 500m thick here--much more is exposed on the surrounding higher hills, but the mine may occur in a down-dropped block. Kate Peak is all flows, no intrusives seen. No information is available on the depth to underlying rocks or what those rocks are. There is a potential for Comstock Lode-type mineralization in the Alta

PROPERTY NAME: Gooseberry mine
OTHER NAMES:
MINING DISTRICT: Ramsey
COUNTY: Storey
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: epithermal vein
QUAD SHEET: Martin Canyon
OWNERSHIP: Originally owned by G.O. Martin, sold to Spar Oil, then to
Sunray-Rainbow, a division of West Coast Oil & Gas
SEC: 21 ,T: 17N ,R: 22E
North: 4372200 East: 285100
PRODUCTION: Probably slightly over 100,000 tons. Based on drilling, 1983 reserves to
be ~2 million oz Ag & 170,000 oz Au
HISTORY: Property was developed by Martin; [illegible] 100 tons each, was built in
Westwater when mill was enlarged
DEVELOPMENT: Vertical shaft to 1000 feet, other auxiliary shafts, numerous [illegible]
and stopes; mill, offices, and houses from Martin ownership, tailings pond [illegible]
GEOLOGY: Precious metal mineralization at the Gooseberry mine occurs in an
east-west-trending quartz and calcite vein which cuts propylitized andesitic
volcanic flows of the Tertiary Kate Peak Fm. [illegible]. [illegible]
vein gives a date of about 13my, similar to a mineralization date at Olinghouse,
and probably not too different from Comstock Lode (13my). The Kate Peak is
propylitically altered over a large area, possibly unrelated to the
Gooseberry mineralization. The outcrop of the vein is in places as much as
1.5m-wide quartz and calcite seam at one location, but only vuggy white float rock
(east-west) for 100-200m along strike. Clay minerals at the surface outcrop may
result from acid leaching of wallrock by solutions formed by oxidation of pyrite
in wallrock adjacent to veins. Gypsum noted in the altered surface zone is
probably supergene. Oxidation reportedly extends down to about the 200 ft level
(none noted at 800 level). No mining has been done above 200', and surface exposure of
the vein is still not well located in that area. Pyrite oxidizes at [illegible]
around the vein, and is locally [illegible] amounts (1-2%) in the vein. The tenor of the
vein usually ran less than 0.5oz Au/ton and 2 oz/ton Ag. Grade, [illegible]
obtained by drilling 0-1m below the surface, is [illegible]
REMARKS: Mine only makes 20-30 gallons per minute water at 1000 foot level; water
for mill is piped from the Truckee River, [illegible]
cyanide; company expects 90% recovery; [illegible]
mill is 15 tons/hr, [illegible] gives to 90% [illegible]
sulfides, pyrite, [illegible] may not be recovered [illegible]. Grade is
700 tons (what is Au from precip.), 881 Ag, 22 Au, [illegible] tonnage (150,000
tons) constitutes a resource of 1 oz Ag, 0.04 Au [illegible]
and development
SAMPLE SITE:
REFERENCES: NBMG Bulletin 70, 71; Moore, R., [illegible]
article
EXAMINER: L. J. Garside
DATE VISITED: October 10, 1983

Alteration from upper few hundred (?) feet. [illegible] gold [illegible]
or [illegible] pyrite), acanthite, electrum, with silver. [illegible] Ag minerals are
very fine-grained; some base-metal sulfides may be present in very minor
amounts. The precious metals are confined to the veins; pyrite occurs as a halo
up to 100m from the vein. There are several periods of quartz and calcite
mineralization. The last, calcite-rich one is very low-grade, and mainly
dilutes the ore. The east-west vein may be along a fault which is parallel
to faults like the Carson Lineament, "Truckee Canyon" fault, etc. These could
be conjugate antithetic, left-lateral faults to the right-lateral Walker Lane
fault to the east. Faults with minor right-lateral separation do repeatedly
and offset the vein (usually 1-3m). The Kate Peak is at least 500m thick
here—much more is exposed on the surrounding [illegible] Hills, but the mine may
occur in a down-dropped block. Kate Peak is all flows, no intrusives seen. No
information is available on the depth to basement rocks or what rocks may

Andesite is it is present under the Kate Peak Formation here. Talapoosa, Ramsey, Gooseberry, and Washington Hill could be in a major, east-west structural zone (?). Reserves are: 300,000 tons proven; possibly 1 million total (inferred and proven), all at 9 oz/ton Ag, 0.25oz/ton Au. The Ag:Au ratio is about 40:1. Some argillic alteration in vein may be hypogene, high-grade vein may be only 1m wide, elsewhere probably 5+m wide or more(?). Wallrock horses in vein are silicified and pyritized.

PROPERTY NAME: Ramsey Comstock mine
OTHER NAMES:
MINING DISTRICT: Ramsey
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Martin Canyon
OWNERSHIP: Asamera Minerals Inc.
SEC: 34 ,T: 19N ,R: 23E
North: 4371076 East: 295237
PRODUCTION: Reported to be $16,734 from 224 tons of ore in 1933-34; $19,157 from 3371 tons of ore in 1936. No early production reported.
HISTORY: Early production and mining history not available. Presently an active exploration program in progress by Asamera Minerals, Inc.
DEVELOPMENT: Several deep shafts and mill site.
GEOLOGY: The shafts were sunk on 30-40 foot, east-west-trending, highly silicified fracture zone hosted in bleached white, hydrothermally altered, Hartford Hill rhyolite and Kate Peak andesite of Tertiary age. The gold was reported to have been from cross-fractures within the vein. Asamera, who drilled the trend, said the targets were very narrow and difficult to evaluate. Sample 4230 was selected from dumps and consisted of crushed vein material high in pyrite.
REMARKS: The Lucky Boy was a claim associated with the Ramsey Comstock Mine.
SAMPLE SITE: 4230
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75.
Stoddard and Carpentar, J.A., Mineral Resources of Storey and Lyon Counties, Nevada, (1950), NBMG Bull 49.
EXAMINER: Jack Quade
DATE VISITED: 6-23-89
Attachment:

PROPERTY NAME: Ramsey site shaft
OTHER NAMES:
MINING DISTRICT: Ramsey
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Martin Canyon
OWNERSHIP: Asamera Minerals Inc.
SEC: 3 ,T: 18N ,R: 23E
North: 4369985 East: 294540
PRODUCTION: Unknown
HISTORY: Discovery made not far from here in 1860's. Area currently being remapped.
DEVELOPMENT: Shaft
GEOLOGY: Workings and shaft on a 5 foot silicified rib, striking N 65 degrees W and dipping close to vertical. The vein is hosted in a highly altered and partially silicified volcanic.
REMARKS: Sample 4233 was taken from the dumps.
SAMPLE SITE: 4233
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-23-89
Attachment:

PROPERTY NAME: San Juan Hill mines
OTHER NAMES: San Juan mines
MINING DISTRICT: Ramsey
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Martin Canyon
OWNERSHIP: Asamera Minerals Inc.
SEC: 33&4 ,T: 18 ,R: 23E
North: 4370867 East: 293480
PRODUCTION: Unknown; must be counted as part of the total for the district
HISTORY: Very old workings; probably part of the earliest part of the district which is in the 1860's
DEVELOPMENT: Recent road building and drilling in this area of the camp. Ten shafts, three adits and many prospects.
GEOLOGY: Major silicified zone in a highly altered and brecciated rhyolite zone strikes n 85 degrees E, dips 70 degrees N, and is explored on the north end of San Juan Hill by an adit and shaft.
Sample 4231 is from the silicified intrusive.
On the south end of San Juan Hill, there are several major shafts following a 8-10-foot, silica-rich rib, striking N 20 degrees E. Sample 4232 was taken from the dumps associated with the shafts.
REMARKS: According to Kim Craig of Asamera, much of the area mapped earlier as Kate peak turned out to be altered Alta andesite intruded by Kate Peak. He also said the margins of the Kate Peak intrusive were a good place to look for gold mineralization.
SAMPLE SITE: 4231, 4232
REFERENCES: Kim Craig, Geologist for Asamera Minerals, Inc., Personal Comm, June 23, 1989.
Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas, and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 6-23-89
Attachment:

PROPERTY NAME: Section 1 shaft and adit
OTHER NAMES:
MINING DISTRICT: Ramsey
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Stockton Well
OWNERSHIP: Asamera Minerals Inc.
SEC: 1 ,T: 18N ,R: 23E
North: 4369520 East: 297174
PRODUCTION: Unknown
HISTORY: Dates from the earliest history of the camp, which was 1860's.
DEVELOPMENT: Shaft, adits and pits.
GEOLOGY: The workings follow a N 45 degrees E-striking, highly brecciated, felsic, rhyolitic intrusive hosted in andesite. The vein includes vuggy quartz and rhyolite breccia with manganese-oxide staining.
REMARKS:
SAMPLE SITE: 4229
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Section 12 shafts
OTHER NAMES:
MINING DISTRICT: Ramsey
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Stockton Well
OWNERSHIP: Unknown
SEC: 12 ,T: 18N ,R: 23E
North: 4367902 East: 297720
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two shafts
GEOLOGY: Two very old shafts (with hand capstan) prospect a N 65 degrees E-striking vein in a shear between two large outcrops of sugary felsic dikes that have been flooded by silica. The dikes have intruded thin, gray metasediments. These rocks are underlain by granite of Cretaceous age. Sample 4227 was taken from dumps associated with the shafts and consisted of breccia and quartz without visible mineralization.
REMARKS: Fair main road to Ramsey.
SAMPLE SITE: 4227
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-23-89
Attachment:

PROPERTY NAME: Section 14 shaft
OTHER NAMES:
MINING DISTRICT: Ramsey
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Stockton Well
OWNERSHIP: Carson City
SEC: 14 ,T: 18N ,R: 23E
North: 4366673 East: 296187
PRODUCTION: Loading shoot at bottom of hill, but no records.
HISTORY: Unknown
DEVELOPMENT: Shallow caved shafts and pits.
GEOLOGY: A N 65 degrees W-striking quartz vein is prospected by two pits and a shallow caved shaft in flat-lying, west dipping, light-gray, meta-siltstone of Jurassic age. The vein consists of 1-2 feet of massive quartz and quartz stringers with light, greenish-yellow oxides of lead and possible antimony.
REMARKS: Poor roads north of Highway 50.
SAMPLE SITE: 4226
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-23-89
Attachment:

PROPERTY NAME: Section 2 adit
OTHER NAMES:
MINING DISTRICT: Ramsey
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Stockton Well
OWNERSHIP: Asamera Minerals Inc., 6121 Lakeside Dr., Reno, NV 89511
SEC: 2 ,T: 18N ,R: 23E
6121 Lakeside Dr.
Reno, Nevada 89511
North: 4369297 East: 296751
PRODUCTION: Not recorded
HISTORY: Mines in this part of district date from the 1860's but the details are not available. Couch and Carpentar (1943) list the production for the district prior to 1940 as $373,325. Asamera holds the ground and are presently active.
DEVELOPMENT: This site is part of many prospect type workings that cover this part of the district.
GEOLOGY: A southeast-bearing cross-cut adit was driven at this site in andesite of Tertiary age to expose and explore a 20-foot, silicified breccia vein striking N 45 degrees E. The breccia has rhyolite clasts as well as galena, pyrite, manganese oxides and possible gold and silver.
REMARKS: Asamera is currently mapping, dozing and drilling different localities in the district which is part of an on-going project that is in its second year. To date they have blocked out approximately 500,000 tons of .04 Au/ton.
SAMPLE SITE: 4228
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Spencer claims
OTHER NAMES:
MINING DISTRICT: Ramsey
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz vein & fracture filling
QUAD SHEET: Martin Canyon
OWNERSHIP: Asamera Minerals Inc.
SEC: 15 ,T: 18N ,R: 23E
North: 4366332 East: 294683
PRODUCTION: None reported

HISTORY: Old Spencer shaft shown on the map was barren but later drilling by Asamera blocked out about 500,000 tons of .04 oz of Au/ton, just south and west of that site.

DEVELOPMENT: Old shaft, newer road building, and drilling (200 holes averaging 300 feet deep).

GEOLOGY: The best gold values are reported to be near the surface in maze of fracture fillings. Pyrite increases with depth. Micron gold, in part, but also concentrated in the fracture fillings. According to Kim Craig, geologist for Asamera much of the area was originally mapped as Kate Peak but was later found to be Alta andesite intruded by Kate Peak. The intruded areas were said to be good exploration targets.

REMARKS: Asamera is apparently looking for more ore before it starts mining.

SAMPLE SITE: 4234

REFERENCES: Kim Craig, Geologist for Asamera Minerals Inc., Personal Comm, June 23, 1989.

EXAMINER: Jack Quade
DATE VISITED: 6-23-89
Attachment:

PROPERTY NAME: Crazy Hill pit
OTHER NAMES: Rawhide gold mine (part of)
MINING DISTRICT: Rawhide
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Disseminated, stockwork
QUAD SHEET: Rawhide
OWNERSHIP: Kennecott
SEC: 9 ,T: 13N ,R: 32E
North: 4318500 East: 380600
PRODUCTION: Few thousand ounces gold past production
HISTORY:
DEVELOPMENT: Exploration drilling, numerous shafts, small pits
GEOLOGY: Rhyolite and rhyocacite flow dome complex aligned along NW trend, vent breccias, surge deposits, hydrothermal cherts, bedded pyroclastic deposits, silicification, phreatic breccias, abundant hydrofracturing.
REMARKS:
SAMPLE SITE: 3311
REFERENCES: Schrader, 1947
EXAMINER: H. F. Bonham, Jr.
DATE VISITED: June 1986
Attachment:

PROPERTY NAME: Hooligan Hill
OTHER NAMES:
MINING DISTRICT: Rawhide
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Stockwork
QUAD SHEET: Rawhide
OWNERSHIP: Kennecott
SEC: 8 ,T: 13N ,R: 32E
North: 4319000 East: 379400
PRODUCTION: Several thousand ounces gold potential resource, open pit
HISTORY: Production from high-grade zones in early 1900's
DEVELOPMENT: Numerous shafts, stopes, drill roads
GEOLOGY: Rhyodacite porphyry plug adjacent ot northwest-trending zone of rhyolite vents; cut by several mineralized fracture systems. Mineralization is gold-adularia with pyrite (oxidized) on fracture and joint surfaces.
REMARKS:
SAMPLE SITE: 3313
REFERENCES: Schrader, 1947
EXAMINER: H. F. Bonham, Jr.
DATE VISITED: June 1986
Attachment:

PROPERTY NAME: Murray Hill pit
OTHER NAMES: Rawhide gold mine (part of)
MINING DISTRICT: Rawhide
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Disseminated
QUAD SHEET: Rawhide
OWNERSHIP: Kennecott
SEC: 9 ,T: 13N ,R: 32E
North: 4318900 East: 380100
PRODUCTION:
HISTORY: Operated early 1900's to 1920; exploration 1960-80's
DEVELOPMENT: Numerous shafts, drill roads
GEOLOGY: Rhyolitic flow dome vent complex in northwest-trending zone of vents. Rhyolite flow domes, pyroclastic deposits, surge, waterlain tuff, and volcaniclastic rocks, abundant breccia, phreatomagmatic and phreatic, strong silicification, bordered by argillic zone. Shallow hot-spring environment. Disseminated and stockwork ore.
REMARKS: Reserves approximately 20 m.t. of 0.068 oz gold/ton
SAMPLE SITE: 3312
REFERENCES: Schrader, 1947
EXAMINER: H. F. Bonham, Jr.
DATE VISITED: June 1986
Attachment:

PROPERTY NAME: Regent
OTHER NAMES: West Rawhide
MINING DISTRICT: Rawhide
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, antimony
TYPE OF DEPOSIT: Stockwork
QUAD SHEET: Rawhide
OWNERSHIP: Kennecott
SEC: uns. ,T: 14N ,R: 32E
North: 4321300 East: 377200
PRODUCTION: Few thousand ounces gold
HISTORY: Production from high-grade zones in early 1900's
DEVELOPMENT: Numerous shafts, drill roads
GEOLOGY: Rhyolitic vent complex, pumice-rich tuff, vent breccia, volcaniclastic sediments, subaqueous hot-spring deposits; hydrothermal breccias, stockworks, strong silicification, argillic alteration envelope; locally abundant stibconite
REMARKS: Idle at time of examination
SAMPLE SITE: 3314
REFERENCES: Schrader, 1947
EXAMINER: H. F. Bonham, Jr.
DATE VISITED: June 1986
Attachment:

PROPERTY NAME: Gold Bug mine
OTHER NAMES:
MINING DISTRICT: Red Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Double Spring
OWNERSHIP: Unknown
SEC: 16 ,T: 11N ,R: 22E
North: 4299655 East: 280535
PRODUCTION: Unknown
HISTORY: Older workings have been dozed especially in the vicinity of the main adit.
DEVELOPMENT: Adit, dozing and road construction.
GEOLOGY: A major structure striking N 65 degrees W and dipping 80 degrees SW is exposed by an adit driven to the southeast along the 4-foot wide vein. At some later date, the portal opening was expanded from the initial 4-foot opening to about 10 feet and driven into the adit a distance of about 50 feet. The new opening was also stoped through to the surface. The vein is hosted in a fine-grained, dark gray, metavolcanic of Jurassic-Triassic age and very near a contact with granite. The vein, which included both quartz and replacement ore, contained chalcopyrite, pyrite and gold-silver mineralization. Sample 4438 was taken from the dumps while Sample 4439 was chipped from across the face of vein inside the adit.
REMARKS:
SAMPLE SITE: 4438, 4439
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-13-89
Attachment:

PROPERTY NAME: Longfellow mine
OTHER NAMES:
MINING DISTRICT: Red Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Double Spring
OWNERSHIP: Unknown
SEC: 10 ,T: 11N ,R: 22E
North: 4301232 East: 282815
PRODUCTION: Not reported
HISTORY: The first ore from the district came from this mine in 1862 and was shipped to Virginia City.
DEVELOPMENT: Several shafts, one very large; adit, trenches and prospects
GEOLOGY: The shafts and prospects follow the strike of a N 80 degrees W shear in quartz monzonite of Cretaceous age. The quartz vein within the shear is vuggy, iron-stained, with cubes of pyrite or pseudomorphs common. Chalcopyrite and galena were visible with argentiferous galena being reported. Many prospects in the area along veins in the granite but none of any size.
REMARKS:
SAMPLE SITE: 4444
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada: NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 7-31-89
Attachment:

PROPERTY NAME: Lucky Bill mine
OTHER NAMES:
MINING DISTRICT: Red Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): Silver, lead, zinc
TYPE OF DEPOSIT: Vein
QUAD SHEET: Oreana Peak
OWNERSHIP:
SEC: 2 ,T: 11N ,R: 22E
North: 4303100 East: 284300
PRODUCTION: Minor(?)
HISTORY:
DEVELOPMENT: Adits, bulldozer roads and cuts
GEOLOGY: According to Hill(1915), the workings at the Lucky Bill mine explore small, pockety deposits of argentiferous galena, quartz, and stibnite with minor pyrite and chalacopyrite. The deposits are reported to occur in fracture zones in quartzite and are described as replacements. Only a few cuts and pits were examined during this visit. In one cut, a 1m-wide isolated band of pyrite-rich material occurs parallel to bedding of the siltstone units of Triassic Gardnerville Formation (Sample 4522). An ore sample (4523) found along a haul road going up the canyon northeast of the main bulldozer cuts contains coarse crystalline calcite, sphalerite, galena, and pyrite. The wallrocks are siltstone and carbonate rock of the Gardnerville Formation.
REMARKS:
SAMPLE SITE: 4522, 4523
REFERENCES: Hill, 1915, USGS Bulletin 594, p. 62
EXAMINER: L. J. Garside
DATE VISITED: October 16, 1989
Attachment:

PROPERTY NAME: Morgan #3 claim
OTHER NAMES:
MINING DISTRICT: Red Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Double Spring
OWNERSHIP: K.L. Morgan Sr., 2581 Meadow Brook, Carson City, NV 89410
SEC: 16 ,T: 11N ,R: 22E
North: 4299849 East: 281749
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adits and prospects
GEOLOGY: The upper adit was driven on a S 70 degrees E strike along an irregular-dipping vein up to 2-feet in width and hosted in granite of Cretaceous age. The vein is massive in character, vuggy, limonite-stained and contained visible pyrite and other sulfides.
REMARKS: Good roads on top of the range but difficult to get there other than from just south of the Veta Grande mine off Highway 395.
SAMPLE SITE: 4440
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-13-89
Attachment:

PROPERTY NAME: Premier adit
OTHER NAMES:
MINING DISTRICT: Red Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Double Spring
OWNERSHIP: Unknown
SEC: 15 ,T: 11N ,R: 22E
North: 4299415 East: 282144
PRODUCTION: Unknown
HISTORY: May have been part of the Premier mine(?) Dates from the same era.
DEVELOPMENT: Very large adit not shown on map.
GEOLOGY: A large adit on a major structure that strikes N 50 degrees E between fine-grained, meta-volcanics of Jurassic-Triassic age and Cretaceous quartz monzonite. The hangingwall side of the adit is smeared with quartz slickensides. The vein filling contains quartz, silicified gouge and some replacement ore. No skarn and only minor contact orewas observed. The visible ore minerals include chalcopyrite, pyrite and probable gold-silver mineralization.
REMARKS: Walk down from the Premier mine.
SAMPLE SITE: 4442
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-13-89
Attachment:

PROPERTY NAME: Premier mine
OTHER NAMES:
MINING DISTRICT: Red Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: Vein and contact
QUAD SHEET: Double Spring
OWNERSHIP: Unknown
SEC: 15 ,T: 11N ,R: 22E
North: 4299596 East: 282245
PRODUCTION: Unknown
HISTORY: Unknown but mining started in this part of the Pine Nut Range in 1862.
DEVELOPMENT: Two large adits
GEOLOGY: Both adits were collared in granite but at least one made contact with limey meta-sediments, probably the west-driven, southern-most adit. Both adits are caved and the surrounding stone cabins are very old. The dumps contain both calcite and quartz vein material with chalcopyrite, pyrite and possible gold. There is no skarn and only small amounts of contact mineralization.
REMARKS: The road down from the top, to the east, is very steep and has limited footing.
SAMPLE SITE: 4441
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-13-89
Attachment:

PROPERTY NAME: Red Canyon claims
OTHER NAMES:
MINING DISTRICT: Red Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Oreana Peak
OWNERSHIP: Unknown
SEC: 5 ,T: 11N ,R: 23E
North: 4302350 East: 289212
PRODUCTION: Unknown
HISTORY: Was active in 1915 but there are no records
DEVELOPMENT: Several adits and shafts at different levels.
GEOLOGY: An area of old caved adits and shafts in gossan-like capping with irregular contacts between meta-sediments and granite. Sulfides occur at surface but carbonates and sulphur were reported by Hill, 1915, to be present in the deepest workings. Ore scattered around on dumps includes chalcopyrite, pyrite and pyrrhotite.
REMARKS:
SAMPLE SITE: 4405
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75.
Hill, J.M., 1915, Some mining districts in northeastern California, and northwestern Nevada; USGS Bull 594.
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: Section 10 shafts and adit
OTHER NAMES:
MINING DISTRICT: Red Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Double Spring
OWNERSHIP: Unknown
SEC: 10 ,T: 11N ,R: 22E
North: 4301226 East: 282615
PRODUCTION: Unknown; but may be part of the Longfellow vein system, but more to the west near the Bullionville site.
HISTORY: These mines began in 1862
DEVELOPMENT: Shallow and caved workings near the site of Bullionville.
GEOLOGY: Workings follow the N 45 degrees W strike of a narrow vein in granite that may be a westward extension of the Longfellow vein system.
REMARKS: Sample 4445 was taken from the dumps.
SAMPLE SITE: 4445
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-13-89
Attachment:

PROPERTY NAME: Section 15 shaft and adit
OTHER NAMES:
MINING DISTRICT: Red Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silve, lead, tungsten
TYPE OF DEPOSIT: vein; skarn
QUAD SHEET: Double Spring
OWNERSHIP: Unknown
SEC: 15 ,T: 11N ,R: 22E
North: 4299894 East: 282422
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft and adit
GEOLOGY: A shaft and adit follow the strike of a N 25 degrees E-striking vein dipping 75 degrees NW in a shear hosted in Cretaceous quartz monzonite and alaskite. There is no limestone cropping out near the workings but limestone and calcite are both on the dumps associated with the shaft. Most of the vein material is quartz and skarn with visible scheelite and galena. Some stock-piled ore contains a limestone breccia with sulfides.
REMARKS:
SAMPLE SITE: 4443
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-13-89
Attachment:

PROPERTY NAME: Section 4 adits
OTHER NAMES:
MINING DISTRICT: Red Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): copper, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: Double Spring
OWNERSHIP: Unknown
SEC: 4 ,T: 11N ,R: 22E
North: 4302031 East: 281255
PRODUCTION: Unknown
HISTORY: These are quite extensive old workings that do not appear on the current map.
DEVELOPMENT: Adits and prospects adjacent to the main road from the north.
GEOLOGY: The line of adits are caved but were originally driven on a N 55 degrees E strike of a mineralized vein in granite. The vein filling includes a quartz, silcified, iron-stained gouge, copper oxides, and pyrite.
REMARKS:
SAMPLE SITE: 4446
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-13-89
Attachment:

PROPERTY NAME: Dayton iron deposit
OTHER NAMES: Rosetta mine
MINING DISTRICT: Red Mountain
COUNTY: Lyon
MINERAL COMMODITY(IES): iron
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Misfits Flat
OWNERSHIP: Utah International (?)
SEC: 6 ,T: 17N ,R: 23E
North: 4360095 East: 288936
PRODUCTION: none
HISTORY: The main iron deposit was claimed, partially explored, and patented in the period 1903-08; some exploration was done in 1942 by the USBM; Utah Construction Co. purchased property in 1951 and worked into the 1960's
DEVELOPMENT: A 100-foot shaft, numerous pits, trenches and extensive drilling
GEOLOGY: Iron ore deposits, essentially magenetite bodies with minor pyrite, have replaced folded metasedimentary rocks of probable Triassic or Early Jurassic age. Limestone beds in the metasedimentary rocks were more amenable to replacement than adjacent schists and hornfels. The orebody was formed in an asymmetrical anticline which is overturned to the east and has a core of granodiorite. The principal deposit outcrops and forms a low hill with about 100 feet of relief; a large portion of the deposit is buried under shallow alluvium in the surrounding valley.
REMARKS: The deposit was extensively drilled and tested; plans were made to place the property into production but iron prices fell and no ore was produced.
SAMPLE SITE: 3776
REFERENCES: Reeves and others, 1958, NBMG Bulletin 53B; Roylance, J.G., Jr., 1966, NBMG Report 13A.
EXAMINER: Jack Quade
DATE VISITED: June 9, 1989
Attachment:

PROPERTY NAME: Iron Blossom prospect
OTHER NAMES: Section 10 open pit
MINING DISTRICT: Red Mountain
COUNTY: Lyon
MINERAL COMMODITY(IES): iron
TYPE OF DEPOSIT: Contact
QUAD SHEET: Misfits Flat
OWNERSHIP:
SEC: 10 ,T: 17N ,R: 22E
North: 4358363 East: 285276
PRODUCTION: None
HISTORY:
DEVELOPMENT: Open-pit with nearby drill roads.
GEOLOGY: The deposit is along a metamorphic contact zone between limestone and granite; magnetite has selectively replaced the limestone.
REMARKS:
SAMPLE SITE: 3774
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75.
Reeves, R.G., Shawe, F.R. and Kral, V.E., Iron deposits of West-Central Nevada (1958), NBMG Bull 53.
EXAMINER: Jack Quade
DATE VISITED: 6-9-89
Attachment:

PROPERTY NAME: Pearl Harbor tungsten mine
OTHER NAMES:
MINING DISTRICT: Red Mountain
COUNTY: Lyon
MINERAL COMMODITY(IES): tungsten, lead, copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Misfits Flat
OWNERSHIP: Unknown
SEC: 13 ,T: 17N ,R: 22E
North: 4356092 East: 287410
PRODUCTION: Reported to be 241 ton of ore averaging .89% WO3, shipped in 1943.
HISTORY: Looks to have been discovered and mined at the beginning of World War II.
DEVELOPMENT: Incline and 30 and 50 foot levels.
GEOLOGY: Deposit is in a layer of skarn 3-feet wide and 100 feet long in a small pendant adjacent to a Cretaceous granodiorite. It was reported that the granite cut-off the ore between the 30 and 50 foot levels. Besides visible tungsten, there are some very interesting sulfides form replacement ore in the meta-siltstone.
REMARKS: Just north of Highway 50. Currently the site is accumulating garbage from nearby residents interested in dumping into a shaft.
SAMPLE SITE: 3773
REFERENCES: Moore, J.G., Geology and mineral deposits of Lyon, Douglas and Ormsby Counties, Nevada (1969), NBMG Bull 75.
Lemmon, D.M., and Tweto, O.L., 1962, Tungsten in the U.S. USGS Map MR-25.
EXAMINER: Jack Quade
DATE VISITED: 6-9-89
Attachment:

PROPERTY NAME: Section 10 prospect
OTHER NAMES:
MINING DISTRICT: Red Mountain
COUNTY: Lyon
MINERAL COMMODITY(IES): copper, lead, silver
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Misfits Flat
OWNERSHIP: Unknown
SEC: 10 ,T: 17N ,R: 22E
North: 4358821 East: 284649
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small pit
GEOLOGY: Small quartz vein in caved workings bears N 35 degrees E and is hosted in a granite that is almost entirely a gruss. The vein consists of quartz with visible copper, lead, and probable silver sulfides.
REMARKS: Very near drill road.
SAMPLE SITE: 3775
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-9-89
Attachment:

PROPERTY NAME: Section 13/24
OTHER NAMES:
MINING DISTRICT: Red Mountain
COUNTY: Lyon
MINERAL COMMODITY(IES): silver, lead, copper (?)
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Misfits Flat
OWNERSHIP: Unknown
SEC: 13,24 ,T: 17N ,R: 22E
North: 4356291 East: 287392
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: Small-pit
GEOLOGY: A small prospect-pit exposed a 4-foot quartz vein bearing N 45 degrees W, dipping 70 degrees SW in granite. The vein has visible galena, copper oxides and sulfides, and cubes of pyrite.
REMARKS: Just north of Highway 50.
SAMPLE SITE: 3772
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-9-89
Attachment:

PROPERTY NAME: Arrowhead extension mine
OTHER NAMES:
MINING DISTRICT: Risue Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): silver, lead, copper
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Risue Canyon
OWNERSHIP: Rick Anderson, P.O. Box 8676, S. Lake Tahoe, CA 95731
SEC: 27 ,T: 9N ,R: 23E
North: 4276188 East: 291768
PRODUCTION: Unknown, but ore-bin on property has ore in it.
HISTORY: Unknown
DEVELOPMENT: Large cross-cut adit and several lessor adits.
GEOLOGY: Large adit cross-cuts a northwest-trending shear zone in limey meta-sediments. Replacement ore; consisting of galena, copper and silver sulfides, and possible scheelite occur in limestone adjacent to and along the shear zone.
REMARKS: Most of the old workings in this part of the district are caved.
SAMPLE SITE: 4297
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 7-10-89
Attachment:

PROPERTY NAME: Arrowhead mine
OTHER NAMES: Sky Hi claims
MINING DISTRICT: Risue Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, copper, tungsten, molybdenum
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Risue Canyon
OWNERSHIP: Barium Products and Mining Co., P.O. 50300, Reno, NV 89513
SEC: 27 ,T: 9N ,R: 24E
North: 4275849 East: 291500
PRODUCTION: Some production but records are incomplete
HISTORY: Unknown
DEVELOPMENT: A single shaft and numerous adits
GEOLOGY: The inclined shaft was sunk on a N 20 degrees W-striking, 70 degrees SW-dipping fissure vein in meta-sediments. At least one of the adits was driven in meta-volcanics. The sediments are reported to have been intruded by dikes and sills of quartz monzonite, aplite and pegmatite dikes. Many of the host rocks have been argillically altered.
REMARKS:
SAMPLE SITE: 4299
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 7-10-89
Attachment:

PROPERTY NAME: Piri #3 claim
OTHER NAMES:
MINING DISTRICT: Risue Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Risue Canyon
OWNERSHIP: Bill Kohlngous, John Locke, P.O. Box 50300, Reno, NV 89513
SEC: 32 ,T: 9N ,R: 23E
North: 4275392 East: 288963
PRODUCTION: Unknown but from the presence of a loading shoot there may have been some.
HISTORY: Unknown
DEVELOPMENT: A shaft and adit
GEOLOGY: A shaft and adit follow the N 70 degrees E irregular strike between meta-sediments and diorite. The resulting contact zone has a small amount of skarn exposed with some visible scheelite.
REMARKS: Very poor road with the last mile in a narrow stream channel.
SAMPLE SITE: 4300
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-10-89
Attachment:

PROPERTY NAME: Section 27 adits
OTHER NAMES:
MINING DISTRICT: Risue Canyon
COUNTY: Douglas
MINERAL COMMODITY(IES): copper, gold, tungsten
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Risue Canyon
OWNERSHIP: Unknown
SEC: 27 ,T: 9N ,R: 23E
North: 4276573 East: 291615
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Multiple adits
GEOLOGY: A line of cross-cut adits trend southwest along the west side of Risue Canyon. The workings cut a contact zone between limey meta-sediments and granite. The dumps associated with the caved workings are mostly replacement ore high in pyrite but containing some scheelite. No skarn was observed on any of the dumps.
REMARKS:
SAMPLE SITE: 4298
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 7-10-89
Attachment:

PROPERTY NAME: Adobe Springs prospects
OTHER NAMES:
MINING DISTRICT: Sand Pass Area
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, copper, tungsten (?)
TYPE OF DEPOSIT: Fault zone
QUAD SHEET: Astor Pass
OWNERSHIP:
SEC: 08 ,T: 26N ,R: 20E
North: 4445520 East: 0264280
PRODUCTION: None
HISTORY:
DEVELOPMENT: Several prospect pits within roughly 3/4 mile area
GEOLOGY: N60W-trending fault zone in altered and silicified Miocene intermediate volcanics, probably fossil hot spring zone.
REMARKS:
SAMPLE SITE:
REFERENCES:
EXAMINER: T.L.T. Grose
DATE VISITED: 7-12-86
Attachment:

PROPERTY NAME: Double Check Deposit
OTHER NAMES:
MINING DISTRICT: Sand Pass Area
COUNTY: Washoe
MINERAL COMMODITY(IES): Calcium carbonate
TYPE OF DEPOSIT: Sedimentary, bedded
QUAD SHEET: Astor Pass
OWNERSHIP:
SEC: 23 ,T: 27N ,R: 19E
North: 4452600 East: 0260700
PRODUCTION: Unknown (moderately large)
HISTORY: First mining done in 1919
DEVELOPMENT: Open pits
GEOLOGY: Unconsolidated deposit of calcium carbonate of algal origin, deposits are remnants of a single, flat-lying bed within a sequence of impure diatomite. The carbonate bed ranges in thickness fron several feet up to 12 feet in thickness. The deposits are lacustrine deposits which accumulated in shallow embayments along the relatively open shoreline of Lake Lahontan.
REMARKS:
SAMPLE SITE:
REFERENCES: Papke, K. G., in Bonham, H. F. Jr., 1969, p. 110.
EXAMINER:
DATE VISITED:
Attachment:

PROPERTY NAME: Rivermott Deposit
OTHER NAMES:
MINING DISTRICT: Sand Pass Area
COUNTY: Washoe
MINERAL COMMODITY(IES): Calcium carbonate
TYPE OF DEPOSIT: Sedimentary, bedded
QUAD SHEET: Astor Pass
OWNERSHIP:
SEC: 29 ,T: 27N ,R: 20E
North: 4450800 East: 0264900
PRODUCTION: Unknown (moderately large)
HISTORY: First mining done in 1919
DEVELOPMENT: Open pits
GEOLOGY: Unconsolidated deposit of calcium carbonate of algal origin, deposits are remnants of a single, flat-lying bed within a sequence of impure diatomite. The carbonate bed ranges in thickness fron several feet up to 12 feet in thickness. The deposits are lacustrine deposits which accumulated in shallow embayments along the relatively open shoreline of Lake Lahontan.
REMARKS:
SAMPLE SITE:
REFERENCES: Papke, K. G., in Bonham, H. F. Jr., 1969, 110.
EXAMINER:
DATE VISITED:
Attachment:

PROPERTY NAME: Terraced Hills deposit
OTHER NAMES:
MINING DISTRICT: Sand Pass Area
COUNTY: Washoe
MINERAL COMMODITY(IES): Halloysite
TYPE OF DEPOSIT: Sedimentary, bedded
QUAD SHEET: Astor Pass
OWNERSHIP:
SEC: 13 ,T: 27N ,R: 19E
North: 4454620 East: 0261440
PRODUCTION: Unknown(small to moderate)
HISTORY: First described in 1947, explored by Nevada Cement in 1963, mined for use in Portland cement
DEVELOPMENT: Open pit
GEOLOGY: A series of andesite and basalt flows of late Miocene to Pliocene age are separated by a pyroclastic unit. Most of the pyroclastic unit has been converted to halloysite by hydrothermal processes, forming clay horizons that are nearly conformable to the underlying and overlying volcanic rocks. The halloysite is a compact, brittle material with a dull to slightly waxy luster.
REMARKS: NBMG Sample site 2911
The deposit extends over sections 1, 2, 11, 12, 13, 14, 22, 23, and 24
SAMPLE SITE:
REFERENCES: Papke, in Bonham, 1969, p. 110-113.
Satkoski and Berg, 1982, p. 40
EXAMINER: Jack Quade
DATE VISITED: 6/3/85
Attachment:

PROPERTY NAME: Zenobia clay prospect 1
OTHER NAMES:
MINING DISTRICT: Sand Pass Area
COUNTY: Washoe
MINERAL COMMODITY(IES): clay
TYPE OF DEPOSIT: bedded
QUAD SHEET: The Needle Rocks
OWNERSHIP:
SEC: 04 ,T: 26N ,R: 20E
North: 4427250 East: 0265900
PRODUCTION: Small
HISTORY:
DEVELOPMENT: Small open pit
GEOLOGY: Lahontan deposit of $CaCO_3$ with probable layers of diatomite and possible relatively pure (altered ?) volcanic ash
REMARKS: One of four locations along 1 1/2-mile long NW trend
SAMPLE SITE:
REFERENCES:
EXAMINER: T.L.T. Grose
DATE VISITED: 7-12-86
Attachment:

PROPERTY NAME: Zenobia clay prospect 2
OTHER NAMES:
MINING DISTRICT: Sand Pass Area
COUNTY: Washoe
MINERAL COMMODITY(IES): clay
TYPE OF DEPOSIT: bedded
QUAD SHEET: The Needle Rocks
OWNERSHIP:
SEC: 09 ,T: 26N ,R: 20E
North: 4446450 East: 0266100
PRODUCTION: Small
HISTORY:
DEVELOPMENT: Small open pit
GEOLOGY: Lahontan deposit of $CaCO_3$ with probable layers of diatomite and possible relatively pure (altered ?) volcanic ash
REMARKS: One of four locations along 1 1/2-mile long NW trend
SAMPLE SITE:
REFERENCES:
EXAMINER: T.L.T. Grose
DATE VISITED: 7-12-86
Attachment:

PROPERTY NAME: Zenobia clay prospect 3
OTHER NAMES:
MINING DISTRICT: Sand Pass Area
COUNTY: Washoe
MINERAL COMMODITY(IES): clay
TYPE OF DEPOSIT: bedded
QUAD SHEET: The Needle Rocks
OWNERSHIP:
SEC: 09 ,T: 26N ,R: 20E
North: 4445960 East: 0266330
PRODUCTION: Small
HISTORY:
DEVELOPMENT: Trench
GEOLOGY: Lahontan deposit of $CaCO_3$ with probable layers of diatomite and possible relatively pure (altered ?) volcanic ash
REMARKS: One of four locations along 1 1/2-mile long NW trend
SAMPLE SITE:
REFERENCES:
EXAMINER: T.L.T. Grose
DATE VISITED: 7-12-86
Attachment:

PROPERTY NAME: Zenobia clay prospect 4
OTHER NAMES:
MINING DISTRICT: Sand Pass Area
COUNTY: Washoe
MINERAL COMMODITY(IES): clay
TYPE OF DEPOSIT: bedded
QUAD SHEET: The Needle Rocks
OWNERSHIP:
SEC: 16 ,T: 26N ,R: 20E
North: 4445220 East: 0266550
PRODUCTION: Small
HISTORY:
DEVELOPMENT: Trench
GEOLOGY: Lahontan deposit of $CaCO_3$ with probable layers of diatomite and possible relatively pure (altered ?) volcanic ash
REMARKS: One of four locations along 1 1/2-mile long NW trend
SAMPLE SITE:
REFERENCES:
EXAMINER: T.L.T. Grose
DATE VISITED: 7-12-86
Attachment:

PROPERTY NAME: Laxon Mining Co. prospect
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, copper (?)
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Fourmile Canyon
OWNERSHIP:
SEC: ,T: ,R:
North: 4333962 East: 380876
PRODUCTION: none
HISTORY:
DEVELOPMENT: 30-foot-deep, inclined shaft; small, wooden hoisting works; small crushing and leach plant.
GEOLOGY: Shaft sunk in granodiorite following a N50E-striking, 55-degree SW-dipping, white quartz vein. Where exposed at the shaft bottom, the vein is pod-like, is 1- to 2-feet thick, and contains horses of granodiorite within it. In the upper part of the shaft, the vein narrows to about 6 inches thick; it is sheared and contains small clots of chalcopyrite. Green copper-oxide minerals occur along the vein hanging wall and green staining bleeds into granodiorite above the vein wall.
REMARKS: Small dog-holes extend NE and SE along the vein for about 5 feet at the shaft bottom. This is a fairly recent (last year) operation; is is very small-scale. All surface plant is constructed of wood, including the mine cars and tram car; material was hand-loaded into cars, hand sorted at least twice at surface, crushed and loaded into special 50-gallon-drum leach barrels for processing. Does not appear to have been any production. Area appears to have been quickly abandoned and has not been active this season.
SAMPLE SITE: 4336
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: July 25, 1989
Attachment:

PROPERTY NAME: Red Ant mine
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Fourmile Canyon
OWNERSHIP:
SEC: ,T: ,R:
North: 4334012 East: 378757
PRODUCTION: small
HISTORY:
DEVELOPMENT: Vertical shaft, stopes to surface, cuts and pits; considerable amount of bulldozer work to the southwest, across the main canyon
GEOLOGY: Shaft was sunk on N35E-striking, near-vertical lense of garnet-epidote-quartz skarn; three bands of skarn are exposed northeast of the shaft. Exposed section consists of 1-foot band of skarn, 3-inch band of shaly gouge, 10-inch band on skarn, 3-inch band of shaly gouge, and a 2-foot band of skarn. The entire zone is sheared. Rock on the dump consists of sparse skarn with considerable gossany quartz vein material and some jasper. The material is brecciated and cemented with fine-grained brownish hematite-jasperiod mixture; some is laced with quartz veinlets and clots of massive, crystalline calcite are present. The fracture zone seen at the shaft extends into granodiorite north of the shaft where it is expressed as a quartz-rich, iron-oxide-stained gossan zone. To the southwest, across a canyon, prospect pits are within meta-sedimentary rocks which strike EW and dip south about 50-60 degrees. Silicified shear zones in the meta-sedimentary rocks are parallel to the granitic contact, one, about 20-feet thick has recently been prospected, possibly for gold (?)
REMARKS:
SAMPLE SITE: 4334, 4335
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: July 25, 1989
Attachment:

PROPERTY NAME: Red Top mine
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Frenchman
OWNERSHIP:
SEC: ,T: ,R:
North: 4346282 East: 383809
PRODUCTION: small
HISTORY:
DEVELOPMENT: Wooden headframe above timbered shaft, est. 50-feet deep, cuts and trenches follow contact to southwest
GEOLOGY: Vitreous, quartz-epidote skarn with some garnet occurs along N70E, vertical contact between shaley hornfels and coarse-grained granodiorite. Biotite in granodiorite has been altered to chlorite near contact. Skarn zone is separated from the contact by about 3 feet of shaley material, largely muscovite, and about one foot of hornfels. A 10-foot thick band of aplite crops out to west of skarn outcrop. Skarn has formed in small pendant surrounded by granodiorite; other small pendants of greenish hornfels, 15 to 20 feet thick, crop out nearby and parallel the trend of the contact exposed at the mine.
REMARKS:
SAMPLE SITE: 4331
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 24, 1989
Attachment:

PROPERTY NAME: Red Top Scheelite mine
OTHER NAMES: Samples 3861, 3862, 3863
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Frenchman
OWNERSHIP: Unknown
SEC: 12 ,T: 16N ,R: 32E
North: 4346240 East: 383740
PRODUCTION: 693 units WO3
HISTORY: Several periods of production
DEVELOPMENT: A shaft, incline, some trenching.
GEOLOGY: Workings explore a N70 degrees E-striking contact with a irregular dip between granite on the south and metasediments on the north. The metasediments at the mine include gray-micaceous shale, limestone, which have been locally intruded by andesite dikes. At the lower western shaft, the silicated portion of the contact zone is no more than 3- to 4-feet thick and consists of skarn containing epidote, garnet, and calcite with minor scheelite. Sample 3861, from the lower west workings, contained 70 ppm tungsten. Sample 3862, from the upper incline to the northeast was collected from the same N70 degrees E structure and consisted of garnet-epidote skarn with calcite and some quartz veining. This sample assayed 2000 ppm tungsten and 200 ppm zinc. From a prospect and adit about a third of a mile further to the northeast, a third sample (3863) was taken from the same structure. At this location, the workings are within the CBR#1 claim. The metasediments at this location are micaceous, and the skarn zone formed is narrower. Sample 3863 contained 5000 ppm manganese, 500 ppm zinc and only minor values for other metals. None of the samples contained detectable gold or silver. (cont on appendage)
REMARKS:
SAMPLE SITE: 3861, 3862, 3863
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-16-86

Attachment: Stager and Tingley (1988) describe the property as a scheelite-bearing tactite along an almore E-W contact zone between granodiorite (south) and metamorphic rocks (north). Prospecting and mining have occurred along a vertical ENE trending shear zone that appears to parallel the intrusive contact. Numerous aplite dikes, that are vertical and strike N50 degrees E are present in the contact area. The ore averaged 0.5 to 1.0 percent WO3 with total production of 693 units of WO3.

PROPERTY NAME: Sample site 3851
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Frenchman
OWNERSHIP:
SEC: 7 ,T: 16N ,R: 33E
North: 4347200 East: 385500
PRODUCTION: Unknown; looks like a prospect
HISTORY: Local equipment dates from the thirties
DEVELOPMENT: An inclined shaft and prospects, 3 of which are fairly large.
GEOLOGY: The workings explore a vein in a fault bearing N85 degrees W, 73 degrees S that cuts altered, white tuffs. Locally, the tuffs are cut by andesite dikes. The incline follows the vein down dip. The zone is a white punky mass of argillically altered, broken volcanic rock containing minor quartz fragments and little or no visible mineralization. Sample 3851 was taken from the incline dumps and exposed vein. The sample contained only minor base metals, 1.5 ppm silver, and no detectable gold.
REMARKS:
SAMPLE SITE: 3851
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-15-86
Attachment:

PROPERTY NAME: Sample site 3854
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): silver
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Frenchman
OWNERSHIP: Unknown, old stakes and no paper
SEC: 7 ,T: 16N ,R: 33E
North: 4346950 East: 385920
PRODUCTION: A prospect
HISTORY: Old workings
DEVELOPMENT: A line of prospects
GEOLOGY: Prospects in volcanics near contact with older sedimentary rocks workings, mainly a line of open cuts, follow a southwest-trending structure with irregular strike. Sample 3854 was chipped from a quartz vein with breccia, some massive vuggy quartz, and sulfides. The sample contained only 3 ppm silver, minor base metals, and no detectable gold.
REMARKS:
SAMPLE SITE: 3854
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-15-86
Attachment:

PROPERTY NAME: Sample site 3855
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): uranium (?)
TYPE OF DEPOSIT: Lake sediments
QUAD SHEET: Frenchman
OWNERSHIP: Unknown, old stakes and no paper
SEC: 7 ,T: 17N ,R: 33E
North: 4356200 East: 385740
PRODUCTION: None
HISTORY: Appears to date from the 1970's
DEVELOPMENT: Dozer cuts
GEOLOGY: Dozer workings prospected Tertiary lake sediments by dozing into resistant clay members and tuff members. Minor copper oxides present suggest possible turquoise exploration. Sample 3855 contained only trace values for all metals.
REMARKS:
SAMPLE SITE: 3855
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-15-86
Attachment:

PROPERTY NAME: Sample site 3858
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): tungsten (?)
TYPE OF DEPOSIT: skarn
QUAD SHEET: Frenchman
OWNERSHIP:
SEC: 7 ,T: 16N ,R: 33E
North: 4346100 East: 386360
PRODUCTION:
HISTORY:
DEVELOPMENT: Open cut along road
GEOLOGY: Granite-shale contact with narrow irregular margin; epidote, skarn, garnet, scheelite (?)
REMARKS:
SAMPLE SITE: 3858
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-16-86
Attachment:

PROPERTY NAME: Sample site 3859
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Frenchman
OWNERSHIP:
SEC: 7 ,T: 16N ,R: 33E
North: 4346285 East: 386425
PRODUCTION:
HISTORY:
DEVELOPMENT: Open pit
GEOLOGY: Quartz vein with wispy gray sulfides, cutting highly altered, micaceous sediments.
REMARKS:
SAMPLE SITE: 3859
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-16-86
Attachment:

PROPERTY NAME: Sample site 3860
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver nc
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Frenchman
OWNERSHIP: Not staked
SEC: 13 ,T: 16N ,R: 32E
North: 4345700 East: 383800
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: None
GEOLOGY: Sample 3860 was from a 8 to 12-inch thick quartz vein in granite. The vein strikes north, dips to the east, and is slightly brecciated along its contact with the enclosing granite. The sample assayed 1000 ppm barite, and 150 ppm boron, but contained no other significant values.
REMARKS:
SAMPLE SITE: 3860
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-16-86
Attachment:

PROPERTY NAME: Sample sites 3864 and 3865
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver nc
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Chuckar Canyon
OWNERSHIP:
SEC: 36 ,T: 16N ,R: 32E
North: 4341080 East: 383410
PRODUCTION: Unknown
HISTORY: Workings date from the 1977 era
DEVELOPMENT: Small prospect with small wooden ore chute
GEOLOGY: The workings are on a small N55 W striking, 70 degrees NE-dipping quartz vein in granite. Below the workings, a wooden ore chute designed to lower the ore down a steep drainage to the canyon floor is still in place. Local intrusive rhyolite forms a bold silicified outcrop bearing roughly NW; smaller andesite intrusives are also present. Sample 3864 was chipped from the vein outcrop and contained very low values for base metals and contained no detectable gold or silver. To the southeast, a vein near a rhyolite outcrop in granite was prospected along its strike. Sample 3865, chipped from this vein, contained similar low values.
REMARKS:
SAMPLE SITE: 3864, 3865
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-16-86
Attachment:

PROPERTY NAME: Sample sites 3866 and 3867
OTHER NAMES: Henderson claims
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, copper, lead, zinc
TYPE OF DEPOSIT: Veins in shears
QUAD SHEET: Chuckar Canyon
OWNERSHIP: Area staked in 1976 and again in 1980 by C. W. Henderson of Fallon, claims now invalid.
SEC: 36 ,T: 16N ,R: 32E
North: 4339680 East: 384280
PRODUCTION: Unknown
HISTORY: Work dates from the 1976 era
DEVELOPMENT: A small adit and small prospect
GEOLOGY: The general area is underlain by granite of Cretaceous Age that has been cut by rhyolite, and to a lessor extent, by andesite dikes. Prospecting has occurred along the margins of the dikes but without any apparent success. Sample site 3866 is from a small adit (15 feet long) and incline (17 feet deep) that explore a N65 degres E, 55 degrees NW zone of alteration in granite. Limited mineralization also follows fractures out into the country rock. The sample was collected from the dumps and chipped from the exposed vein and consisted of minor copper and yellow-green oxides coating base metal sulfides. The assays ran 10 ppm silver, 2000 ppm copper, 3000 ppm lead, over 10,000 ppm zinc, but without detectable gold.
A short distance to the northeast, a small prospect explores a northwest-trending structure near a parallel andesite intrusive. The workings are on the old Henderson claims. Sample 3867, taken from the exposed vein, was primarily massive hematite and minor base metal sulfides that contained 3 ppm silver, 150 ppm copper, 100 ppm lead and no detectable gold.
REMARKS:
SAMPLE SITE: 3866, 3867
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-17-86
Attachment:

PROPERTY NAME: Shamrock claim #1
OTHER NAMES: Stardust claims
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Frenchman
OWNERSHIP:
SEC: 7 ,T: 16N ,R: 33E
North: 4346100 East: 386360
PRODUCTION: Unknown
HISTORY: Old workings have been obliterated by dozer-cuts.
DEVELOPMENT: Older workings are now part of the open-pit, trenches, etc.
GEOLOGY: The edge of the pit and the road expose a very narrow contact zone between micaceous sediments and granite with only a few inches of skarn. Sample 3858, from the zone, consisted of garnet, epidote, and some quartz vein with sulfides. The assays ran 70 ppm molybdenum, 70 ppm lead, 150 ppm vanadium, and 200 ppm zinc. Gold and silver were below their detection limits.
Sample 3859 came from the open-pit and consisted of quartz veins hosted in gray-micaceous shale. The sample assayed 500 ppm copper and 200 ppm molybdenum.
REMARKS:
SAMPLE SITE: 3858, 3859
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-16-86
Attachment:

PROPERTY NAME: Shamrock claims #2 and #3
OTHER NAMES: Stardust, Corona, Garnet and Sunflower Group
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): tungsten, base metals
TYPE OF DEPOSIT: skarn
QUAD SHEET: Frenchman
OWNERSHIP:
SEC: 7 ,T: 16N ,R: 33E
North: 4346586 East: 386320
PRODUCTION: Unknown
HISTORY: Older works cut by recent dozing
DEVELOPMENT: Older workings have been obliterated by dozer cuts within the last 5 years.
GEOLOGY: A highly irregular, east-west trending contact zone of metasediments consisting of gray micaceous shale and limestone, some of which is deeply weathered. The silicified skarn zone has been cut by benches, trenches and an open-pit. Sample 3856 is from an exposed portion of the contact zone on the Shamrock #3 claim. The sample consisted of epidote, garnet, calcite and some pyrite. The assays showed only minor base metals and no tungsten. Another sample (3857), taken from the open-pit area, was on the margin of Shamrock #2 and #3 claim. The sample consisted of mostly quartz veining exposed along the margin of the contact zone. Assays ran 500 ppm molybdenum, and 100 ppm copper. Neither sample had detectable gold or silver.
These are the same properties previously known as the above list of names that were reported to have been productive during the period 1951-1956. Production totalled 291 units of WO3 that averaged about 1.0 percent WO3. Stager and Tingley reported the properties to consist of skarn composed of garnet, epidote, diopside, vesuvianite, wollastonite and sparse scheelite occurring in limestone along a contact with granite rocks. The skarn is poorly developed. Scattered quartz veins containing small amounts of scheelite are also present.
REMARKS:
SAMPLE SITE: 3856, 3857
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-16-86
Attachment:

PROPERTY NAME: Standard Tungsten claims
OTHER NAMES: Stardust claims
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Frenchman
OWNERSHIP: Claims are reported to be invalid
SEC: 7 ,T: 16N ,R: 33E
North: 4346670 East: 385485
PRODUCTION: Some ore was stockpiled
HISTORY: Last worked in the 1950's??
DEVELOPMENT: Small adit and trenches
GEOLOGY: Trenches and adit follow a narrow, irregular contact in limestone and metasediments. Granite is present as float but does not crop out. There are also dikes of andesite north and south of workings. Sample 3852 was chipped from the contact zone and consisted of skarn material (epidote, garnet and calcite) as well as minor quartz with visible sulfides. Assay values ran 50 ppm copper and 250 ppm lead, 300 ppm vanadium, 200 ppm tungsten and 700 ppm zinc. Silver and gold were not detected.
A short distance to the northwest, a line of prospects follows a contact in the same limestone. The gossan-like porous mineralization follows the southwest trend for several hundred yards on the surface. Sample 3853, chipped from the contact, assayed 70 ppm silver, 5000 ppm barite, 30 ppm copper, 100 ppm molybdenum, 150 ppm lead, 1000 ppm zinc, and .30 ppm gold.
REMARKS:
SAMPLE SITE: 3852, 3853
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-15-86
Attachment:

PROPERTY NAME: Starbrite claim
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Fourmile Flat
OWNERSHIP:
SEC: 3 ,T: 16N ,R: 32E
North: 4348378 East: 381166
PRODUCTION: none
HISTORY: unknown
DEVELOPMENT: Several short adits, 50 to 100 feet long; shafts, and cuts
GEOLOGY: Workings explore N70E- striking, 50-70-degrees SE-dipping shear zone in granite gneiss; fractures in zone are coated with hematite, limonite, and fine-grained, crystalline malachite; some brecciated white quartz vein material occurs along the shear structure. Wall rock grades to phyllite to the north of the old workings; all of the old adits were driven north to crosscut shear zones and most of the drifting appears to have been done along manganese- and iron-oxide rich zones in the phyllite, all of the zones are moderately stained with copper oxide minerals
REMARKS: The zone has been explored for about 3000 feet along strike, is about 300 feet wide
SAMPLE SITE: 4333
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 25, 1989
Attachment:

PROPERTY NAME: Summit King mine
OTHER NAMES: Dan Tucker Summit King mines
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Epithermal vein system
QUAD SHEET: Frenchman
OWNERSHIP:
SEC: 12 ,T: 16N ,R: 32E
North: 4347260 East: 384160
PRODUCTION: A total of $1,755,000 from the district
HISTORY: Discovered in 1905; development began in 1912 and has continued sporadically ever since.
DEVELOPMENT: Extensive underground workings extend to a depth of 450 feet and are serviced by three shafts, a cyanide mill originally; a heap leach more recently.
GEOLOGY: A system of E-W veins dipping variously but steeply to the south occur in a shear zone that crosses the range. The veins cut metamorphic and Tertiary rocks and andesite and rhyolite dikes that occupy many of the individual fault strands. Near the surface, the veins have a braided pattern, and range in thickness from 1 to 10 feet. The veins consist of vuggy, fine-grained quartz, angular fault breccia and locally abundant pyrite and calcite. The ore is mainly free gold, cerargyrite and argentite. The silver values are reported to increase at depth. Sample 3953 was collected from a shaft on the east end of the vein system, and consisted of vuggy, iron-stained quartz, and sericite but without visible mineralization. The sample contained low values for silver and base metals, and only .05 ppm gold.
REMARKS:
SAMPLE SITE: 3953
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-9-86
Attachment:

PROPERTY NAME: Summit King mine (west)
OTHER NAMES: Lorraine Mines Co.
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: vein
QUAD SHEET: Frenchman
OWNERSHIP:
SEC: ,T: ,R:
North: 4347117 East: 382565
PRODUCTION: moderate
HISTORY: Part of Summit King-Dan Tucker mining operation
DEVELOPMENT: Vertical shafts, now bulldozed closed
GEOLOGY: Structure not visible at shaft collar, vein material on dump consists of white vein quartz with clots and sprays of pyrite and undentified gray sulfide, vein contains fragments of phyllitic wall rock.
REMARKS: Shafts are on the western end of the Summit King mine area, shafts have been bulldozed closed and fenced; current activity is concentrated to the east and north of U.S. Highway 50.
SAMPLE SITE: 4318
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 20, 1989
Attachment:

PROPERTY NAME: T.M.R. claims
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Fourmile Canyon
OWNERSHIP:
SEC: ,T: ,R:
North: 4344165 East: 379817
PRODUCTION: none
HISTORY: unknown
DEVELOPMENT: One adit, about 100-feet long, recent dozer work
GEOLOGY: Adit crosscuts into hill composed of moderately-welded, lithic-rich, rhyolite ash-flow-tuff. Flow banding in tuff is N05E, dips about 15-degrees NW. Tuff is cut by N70-75W, vertical fracture zone; hematite staining occurs along the flow surfaces and floods fracture surfaces. There is minor brecciation along the NW structure and some silica cementation of breccia. Dog-hole workings extending from the adit explore soft, white ash zone along flow-banding where cut by vertical fractures. A thin hematite-limonite-rich zone, 2 to 3 inches thick, also follows this banded zone. Free gold is reported to be present but none was seen.
Flow-banding on the west slope of the hill is near-vertical and highly contorted; hill may be a small rhyolite plug.
REMARKS:
SAMPLE SITE: 4332
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 25, 1989
Attachment:

PROPERTY NAME: TES and SAS claims
OTHER NAMES:
MINING DISTRICT: Sand Springs
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Chuckar Canyon
OWNERSHIP:
SEC: 26 ,T: 16N ,R: 32E
North: 4341500 East: 383080
PRODUCTION: None
HISTORY: Unknown except for minor prospecting
DEVELOPMENT: None except for minor prospecting
GEOLOGY: The area is underlain by Cretaceous granites cut by rhyolite and andesite dikes and occassional quartz veins. Sample 3925 was chipped from a 40- to 50-foot thick white bull quartz vein bearing N40 degrees W that crops out for a distance of several hundred yards. The general area is covered by the TES claim. Assay results from the sample were very near or below the detection limit for all elements. Sample 3916 came from an outcrop on the SAS claim. The sample was chipped from an outcrop of quartz near a contact with a rhyolite intrusive. The vein is vuggy and strongly iron-stained and with numerous slickensides, bearing N 60 degrees W and dipping irregularly. The assays for all elements were near the detection limits except for molybdenum which reported 70 ppm.
REMARKS:
SAMPLE SITE: 3915, 3916
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-16-86
Attachment:

PROPERTY NAME: Atom-Lorna claims
OTHER NAMES: Rim Rock claims
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, lead, zinc
TYPE OF DEPOSIT: Vein
QUAD SHEET: Mina NW
OWNERSHIP:
SEC: 7 ,T: 7N ,R: 34E
North: 4259329 East: 392913
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Inclined shaft and considerable prospects.
GEOLOGY: A major shear with quartz vein in altered limestone near contact with felsite. Incline sunk on dip of 55 degrees N. Mineralization in quartz veins and altered felsite consists of galena, sphalerite, pyrite seems to be associated more with the felsite.
REMARKS: Approximately one mile south of the Windup mine.
SAMPLE SITE: 3611
REFERENCES: Ross, D.C., 1961, Geology and Mineral deposits in Mineral County, Nevada, NBMG Bull. 58.
EXAMINER: Jack Quade
DATE VISITED:
Attachment:

PROPERTY NAME: Beeler prospect
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, lead
TYPE OF DEPOSIT: Along fractures in the limestone
QUAD SHEET: Luning
OWNERSHIP: Unknown
SEC: ,T: 8N ,R: 34E
North: 4271026 East: 398947
PRODUCTION: Small or none
HISTORY: Unknown
DEVELOPMENT: Small adits along and prospects
GEOLOGY: The workings follow a N40-50+W, 50-60 degrees SW-dip in limestone of the Luning Formation. The veins are highly oxidized, ferric-iron stained. The workings are at the head of a narrow steep canyon and the sample was taken from what appeared to be stock piles of ore that was being transported on foot as there were no roads.
REMARKS: This may not be the Beeler prospect
SAMPLE SITE: 3537
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-7-89
Attachment:

PROPERTY NAME: Black Butte mine
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, lead
TYPE OF DEPOSIT: Vein
QUAD SHEET: Mina NW
OWNERSHIP: Unknown
SEC: 26 ,T: 7N ,R: 34E
North: 4254081 East: 399209
PRODUCTION: Unknown but there are loading facilities and mill foundations and tailings.
HISTORY: Unknown
DEVELOPMENT: Five adits, four crosscutting and one along the strike.
GEOLOGY: A line of four crosscutting adits trend approximately N70 degrees W cutting a northeast-trending vein in a massive volcanic breccia of Paleozoic age. The limited quartz vein material had lead and unidentified sulfide mineralization. Vein material from an adit driven along strike from the northeast contained limonite stained quartz breccia with a matrix filled with fine-grained black sulfides.
REMARKS: Sample 3615 was taken from a stockpile of dump material on a heap leach at the bottom of the hill. It turned out that the material had been trucked from Candelaria and had come from the Potosi mine. In fact the operation is known as Richardson's Heap Leach which refers to the owner of the now defunct operation.
SAMPLE SITE: 3613
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-2-89
Attachment:

PROPERTY NAME: Black Sam group
OTHER NAMES: Power Wagon claims (1971)
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): iron, copper,tungsten
TYPE OF DEPOSIT: Contact and gossan-like
QUAD SHEET: Sunrise Flat
OWNERSHIP:
SEC: ,T: 8N ,R: 35E
North: 4266151 East: 406323
PRODUCTION: Small
HISTORY: Discovered in 1965 by Lyons and Reddy of Hawthorne
DEVELOPMENT: Open cuts dozing side hills and shallow shafts and incline.
GEOLOGY: Vein of magnetite and copper minerals with a thin veneer of skarn; vein bears SW, dips 80 degrees NW along contact of granite and Luning Limestone.
REMARKS: The area has been drilled, work is old, probably at time of discovery; so much magnetite present that compass didn't work!
SAMPLE SITE: 3541
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-8-89
Attachment:

PROPERTY NAME: Blue Ribbon mine
OTHER NAMES: Blue Ribbon prospect
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten, molybdenum, copper, silver
TYPE OF DEPOSIT: skarn
QUAD SHEET: Mina NW
OWNERSHIP:
SEC: 8 ,T: 7N ,R: 34E
North: 4259177 East: 394140
PRODUCTION: Limited production of tungsten and copper but exact amount is unknown.
HISTORY: Unknown but thought to have been worked during the first World War.
DEVELOPMENT: A line of shallow inclines, adits and prospects.
GEOLOGY: The polymetallic skarn system was reported to be a distal vein type with only minor massive skarn development. Drilling revealed a very complex fault system superimposed on Upper Triassic Luning (Pamlico) Formation, which is composed of limestone, argillite and siliceous water-lain tuffacerous sediments of varying thickness. The host rocks have been intruded by two intrusive bodies, to the west near the Blue Ribbon mine and to the east just north of the Jeep mine, and by numerous quartz monzonite dikes. Calc-silicate veins are present at the Blue Ribbon mine and carry copper as malachite, azurite and chalcocite which were the target of a shallow drilling project. Tungsten occurs as scheelite and molybdo-scheelite in quartz-garnet-idocrase veins. Molybdenum occurs as molybdenite in quartz veins and without quartz in stockwork veinlets in limestone. Tungsten is found near the surface while molybdenum was deposited deeper in the system. The chalcocite was found as a blanket below the copper oxide zone.
REMARKS: Area is several miles south and west of Luning.
SAMPLE SITE: 3602
REFERENCES: Frost, H.K., 1984, Field Trip 10. Skarn Deposits AEG, Reno 1984.
EXAMINER: Jack Quade
DATE VISITED: 4-21-89
Attachment:

PROPERTY NAME: Buff's mine
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper, silver, tungsten (?)
TYPE OF DEPOSIT: skarn
QUAD SHEET: Sunrise Flat
OWNERSHIP: Unknown
SEC: ,T: 8N ,R: 35E
North: 4269017 East: 406169
PRODUCTION: None
HISTORY: Looks to have dated from the 1915-20 era, and the road maintenance stopped during the same period.
DEVELOPMENT: Shaft and prospects
GEOLOGY: Fair sized shaft and workings follow a N60 degree W 70 degree SE-dipping contact zone between granite and Luning Limestone. Copper-oxide stained 5-8 foot vein and very narrow skarn zone also along the same contact. Sample 3538 from dumps and exposed vein.
REMARKS:
SAMPLE SITE: 3538
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-7-89
Attachment:

PROPERTY NAME: Chapman Anderson group
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: replacement
QUAD SHEET: Sunrise Flat
OWNERSHIP: Unknown
SEC: ,T: 8N ,R: 35E
North: 4262771 East: 404074
PRODUCTION: 3000 tons of 5% copper (1915-1916)
HISTORY: Production during the first WW, drill in the area and to the east within the last fifteen years.
DEVELOPMENT: Several shafts one over 400 foot deep, many shallower workings stoped through to the surface...Three 60x20 foot modern sheds filled to the ceilings with core.
GEOLOGY: Shafts and drifts along a N85E-striking silicified zone near a contact between granite and Luning Limestone. The ore bodies are largely copper carbonates and oxides, that occurred as pods, or irregular masses, in the shear zone. Other shears were also mined locally and across the canyon. There may have been ten minor workings that also contributed ore.
REMARKS:
SAMPLE SITE: 3551, 3552
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-9-89
Attachment:

PROPERTY NAME: Clay Peters mine
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, copper, lead
TYPE OF DEPOSIT: Irregular deposits in limestone
QUAD SHEET: Bettles Well
OWNERSHIP: Present lessor is Dagerstrom of Spokane Washington
SEC: 2 ,T: 7N ,R: 36E
North: 4259946 East: 418081
PRODUCTION: Old working had small production.
HISTORY: Active during the 1930's, recently mined as an open pit with a leach operation at Cedar Springs to the east...operation being shut down.
DEVELOPMENT: Large open pit with several miles of road to the Cedar Spring heap leach operation...The mining area is being reclaimed and the leach operation is being phased out.
GEOLOGY: Locally the Luning Limestone is highly silicified and in places strongly brecciated...the upper portion of the pit looks almost gossan like...The gold was reported to be localized in the silicified materials and gouge. Sample 3535 was taken from the open pit area.
REMARKS:
SAMPLE SITE: 3535
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-7-89
Attachment:

PROPERTY NAME: Dunbarton mine
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: vein
QUAD SHEET: Sunrise Flat
OWNERSHIP: Max E. Swanger, Dyer, Nevada
SEC: ,T: 8N ,R: 35E
North: 4265900 East: 409182
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: small adit
GEOLOGY: Adit follows a N10 degree E, 85 degree W-dipping 3-4 foot vein of vuggy limonite-stained quartz with minor copper.
REMARKS:
SAMPLE SITE: 3543
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-8-89
Attachment:

PROPERTY NAME: Eagle prospect
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: vein
QUAD SHEET: Sunrise Flat
OWNERSHIP: Unknown
SEC: ,T: 8N ,R: 35E
North: 4268958 East: 406402
PRODUCTION: None
HISTORY: Unknown but very old
DEVELOPMENT: A small prospect shaft and several small pits.
GEOLOGY: N40 degree W vein exposed in small prospect shaft along the contact between limestone and granite. Sample 3540 taken from the dumps.
REMARKS:
SAMPLE SITE: 3540
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-7-89
Attachment:

PROPERTY NAME: Giroux group
OTHER NAMES: Calvada? Arizona-Nevada
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten, copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Sunrise Flat
OWNERSHIP: Unknown
SEC: ,T: 8N ,R: 35E
North: 4269138 East: 405682
PRODUCTION: Small shipment in 1916
HISTORY: Original mining was for copper later and not recorded was tungsten production.
DEVELOPMENT: 1000 foot incline, crosscut adit and open stopes to the surface. Tactite ore stacked on dumps. Old building further down road. Ore bin still in place.
GEOLOGY: At the surface a N70 degree W, 85 degree NE-dipping 10 foot is crosscut by an adit. To the east, an incline has been sunk on the vein that is reported to be in oxidized copper ore 70 feet wide at depth. It would appear that at some later date the earlier workings were used to remove some of the skarn zone for tungsten. Some of the skarn and copper ore are piled on the dumps. The upper crosscut is stoped through to the surface exposing the vein for at least 100 feet along its strike length. Sample 3539 was taken from the stockpiles and from the exposed vein.
REMARKS:
SAMPLE SITE: 3539
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-7-89
Attachment:

PROPERTY NAME: Iron Gate group
OTHER NAMES: Section 34 adits
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): iron, tungsten (?)
TYPE OF DEPOSIT: skarn
QUAD SHEET: Mina NW
OWNERSHIP: Unknown
SEC: 34 ,T: 7N ,R: 34E
North: 4253270 East: 397116
PRODUCTION: few thousand tons iron ore
HISTORY: Unknown
DEVELOPMENT: Several adits and prospects
GEOLOGY: A highly-irregular contact between Luning Limestone and granite is explored by adits and prospects. The narrow contact zone has small zones of massive hematite but very little skarn and no visible scheelite.
REMARKS: Fair road from the east via Highway 395.
SAMPLE SITE: 3612
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-1-89
Attachment:

PROPERTY NAME: Isabell mine
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten, copper
TYPE OF DEPOSIT: vein
QUAD SHEET: Mina NW
OWNERSHIP: Unknown
SEC: ,T: ,R:
North: 4257915 East: 397856
PRODUCTION: Small
HISTORY: Unknown
DEVELOPMENT: Crosscut workings have been dozed along the strike. A decline from the east has been sunk on the strike.
GEOLOGY: A N45E shear in altered limestone of the Luning Formation has been crosscut by a line of adits and dozed later along the strike of the vein. Quartz veins along the shear contained scheelite with minor copper mineralization and pyrite. The decline to the east apparently mined some gypsum from pod-like deposit in an adjacent, meta sedimentary unit.
REMARKS: Access is from the east via Highway 395
SAMPLE SITE: 3596
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-21-89
Attachment:

PROPERTY NAME: Jeep mine
OTHER NAMES: New Boston prospect
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper, tungsten
TYPE OF DEPOSIT: skarn, vein
QUAD SHEET: Mina NW
OWNERSHIP:
SEC: 9 ,T: 7N ,R: 34E
North: 4258847 East: 395496
PRODUCTION: There is a loading facility but no record of production.
HISTORY: Unknown
DEVELOPMENT: A crosscut adit about 100 feet long, a loading facility, and a cabin.
GEOLOGY: The workings are in a badly fractured portion of the Luning Limestone and not far from several outcroppings of felsite. The felsite might account for the skarn that appears on the dumps. The older workings follow quartz and calcite veins containing minor tungsten and copper mineralization. A new drilling project revealed a complexly faulted small intrusive body and numerous dikes of quartz monzonite. The intrusives are the source of the calc-silicate mineralization found at the mine which include tungsten and copper minerals.
REMARKS: Above the workings and along the mountain sides are numerous roads and drill sites, that appear to be part of a bigger effort that extends to the north, east and west.
SAMPLE SITE: 3601
REFERENCES: Ross, D.C., 1961, Geology and mineral deposits of Mineral County, Nevada; NBMG Bull, 58.
Frost, H.K., 1984, Field Trip 10, Skarn Deposits AEG, Reno, 1984.
EXAMINER: Jack Quade
DATE VISITED: 4-21-89
Attachment:

PROPERTY NAME: Kay mine
OTHER NAMES: Copper Isabell
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Mina NW
OWNERSHIP: Unknown
SEC: 15 ,T: 7N ,R: 34E
North: 4257920 East: 397603
PRODUCTION: Some loading facilities suggest some but it was a long time ago and probably small.
HISTORY: Very old workings
DEVELOPMENT: A maze of adits and stopes.
GEOLOGY: The workings follow copper mineralization in quartz veins in a massive, northeast-dipping, dark-gray limestone, probably Luning Limestone. Some of the veins are discordant but generally they follow bedding planes in the limestone.
REMARKS: Access from east via Highway 395
SAMPLE SITE: 3598
REFERENCES: Ross, D. C., 1961, Geology of mineral deposits Mineral County, Nevada: NBMG Bull 58.
EXAMINER: Jack Quade
DATE VISITED: 4-21-89
Attachment:

PROPERTY NAME: Kope Scheelite mine
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten, copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Bettles Well
OWNERSHIP: Unknown
SEC: 12 ,T: 7N ,R: 36E
North: 4259344 East: 419272
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: Shallow adit and several shallow shafts that are not accessible, also numerous prospect pits.
GEOLOGY: Veins in limestone and thin-bedded shale. Parts of the veins are gossan-like, some are highly silicified and others are brecciated. The main vein and workings strike N50W and dip irregularly. Some drilling locally, but old.
REMARKS: Photo 12
SAMPLE SITE: 3508
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-4-89
Attachment:

PROPERTY NAME: Never Sweat mine
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Gossan-like veins
QUAD SHEET: Sunrise Flat
OWNERSHIP: Unknown
SEC: ,T: 8N ,R: 35E
North: 4263072 East: 406065
PRODUCTION: Some but how much is unknown
HISTORY: The mines nearby were in operation from 1916 to 1918 and these seem to date from the same period...all of the mines were incorporated under the American Copper Co. in 1929.
DEVELOPMENT: Three adits operated out of the same loading facility.
GEOLOGY: Extensive vein systems follow N45W and southeast-trending veins that occur along fissures in the Luning Limestone, that strikes almost north and dips 60W. Ore occurs as copper oxides from veins up to 5 feet in width.
REMARKS:
SAMPLE SITE: 3547
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-8-89
Attachment:

PROPERTY NAME: Nun prospects
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Mina
OWNERSHIP: Unknown
SEC: 5 ,T: 7N ,R: 35E
North: 4261192 East: 403701
PRODUCTION: None
HISTORY: Unknown but old
DEVELOPMENT: Five shallow adits and pits
GEOLOGY: A line of north-trending shallow workings along a shear in the Luning Limestone. Only minor mineralization visable. Sample was taken randomly from dumps.
REMARKS:
SAMPLE SITE: 3549
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-8-89
Attachment:

PROPERTY NAME: Section 10 adit
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten, copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Mina NW
OWNERSHIP: Unknown
SEC: 10 ,T: 7N ,R: 34E
North: 4258931 East: 396550
PRODUCTION: Unknown
HISTORY: Looks to be fairly modern (last ten years)
DEVELOPMENT: An adit prospects and dozer-cuts along strike.
GEOLOGY: The adit was driven along a contact zone bearing S60 degrees W and 60 degrees NW that includes quartz and skarn with minor tungsten, and copper. Dozer-cuts extend the exploration to the north but skarn zones there appear to be quite small.
REMARKS: A new but badly washed road provides access to the east via highway 395.
SAMPLE SITE: 3600
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-21-89
Attachment:

PROPERTY NAME: Section 10 prospect
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Mina NW
OWNERSHIP: Unknown
SEC: 10 ,T: 7N ,R: 34E
North: 4258759 East: 397191
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A small adit amongst many similar prospects along the range.
GEOLOGY: The adit was driven on a S25 degree W, 50 degrees NW two-foot thick, silica-rich vein with copper mineralization hosted in Luning Limestone. The incline to the north is on a barren vein but all of the others in the canyon are old workings on copper shows in limestone.
REMARKS: Easy access from the east via Highway 395
SAMPLE SITE: 3599
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-21-89
Attachment:

PROPERTY NAME: Section 15 prospect
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): barite
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Mina NW
OWNERSHIP: Unknown
SEC: 15 ,T: 7N ,R: 34E
North: 4258556 East: 397290
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small open pit
GEOLOGY: Large N-S fault in Luning Limestone has been cut by older workings which, in turn, were dozed leaving an open pit. Prospects to the north and south explore similar exposures. A small pod of barite has been removed.
REMARKS: Access from the east via Highway 395
SAMPLE SITE: 3597
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-21-89
Attachment:

PROPERTY NAME: Section 27 prospect
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, copper (?)
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Sunrise Flat
OWNERSHIP: Unknown
SEC: 27 ,T: 8N ,R: 35E
North: 4263681 East: 406422
PRODUCTION: Unknown
HISTORY: Unknown but hand capstan rigging still in place above the shaft.
DEVELOPMENT: Timbered shaft with hand capstan and small adit.
GEOLOGY: Seventy-five foot shaft and adit follow a N35 degree E shear in limestone with quartz veining. The vein has minor copper oxides but no other visable minerals. Sample 3544 was selected from the dumps.
REMARKS:
SAMPLE SITE: 3544
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-8-89
Attachment:

PROPERTY NAME: Section 31 mine workings
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Veins
QUAD SHEET: Sunrise Flat
OWNERSHIP: Unknown
SEC: 31 ,T: 8N ,R: 35E
North: 4262074 East: 402435
PRODUCTION: Some but amount unknown
HISTORY: Unknown but area was active in the 1916-1918 era.
DEVELOPMENT: A decline approximately 200 ft. deep, a shallower shaft and remnants of a mill and cyanide facility.
GEOLOGY: The workings were sunk on a N10 degree W-striking vein that rolled to a vertical position with depth. The four-foot vein was hosted in Luning Limestone. Sample was selected from dumps associated with the decline.
REMARKS:
SAMPLE SITE: 3550
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-9-89
Attachment:

PROPERTY NAME: Section 33 prospect
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Sunrise Flat
OWNERSHIP: Unknown
SEC: 33 ,T: 8N ,R: 35E
North: 4263283 East: 405580
PRODUCTION: Some but the amount is unknown
HISTORY: Most of these properties were being operated from 1915 to 1920...later they were consolidated (1929) under the American Copper Co.
DEVELOPMENT: At least 5 adits follow a E-W vein that later turns to the east and dips at about 70 degrees S.
GEOLOGY: The vein is from three to five feet in width and is hosted in Luning Limestone. The vein is stoped through to the surface in many places along its strike length. Sample 3546 was taken from the exposed vein and dumps. These workings are very old and have not been restaked.
REMARKS:
SAMPLE SITE: 3546
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-8-89
Attachment:

PROPERTY NAME: Section 34 prospect
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Gossan-like, silicified gouge
QUAD SHEET: Sunrise Flat
OWNERSHIP: Unknown
SEC: 34 ,T: 8N ,R: 35E
North: 4261938 East: 406047
PRODUCTION: Unknown
HISTORY: Exploration in this camp was very heavy during the first world war.
DEVELOPMENT: Adits, shallow shafts and pits.
GEOLOGY: Workings are along two northwest-trending shears filled with quartz stringers, silicified gouge, and iron-stained breccia. The host rock is Luning Limestone. Stockpiles of ore were hand sorted. Drilling of the area to the west appears to be old, maybe over 15 years?
REMARKS:
SAMPLE SITE: 3548
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-8-89
Attachment:

PROPERTY NAME: Section 35 prospect adits
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): gold(?)
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Luning
OWNERSHIP: Unknown
SEC: 35 ,T: 9N ,R: 34E
North: 4272067 East: 398760
PRODUCTION: None
HISTORY: Earlier prospect period is unknown but the area is presently being cut by roads and will be drilled in the near future.
DEVELOPMENT: Four old shallow adits.
GEOLOGY: The four adits are along parallel shears in deeply weathered granite that contain limonite stained, vuggy quartz stringers; all of which show some pyrite and other sulfides.
REMARKS:
SAMPLE SITE: 3553
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-9-89
Attachment:

PROPERTY NAME: Section 35 small open pit
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): iron
TYPE OF DEPOSIT: Gossan-like deposit
QUAD SHEET: Luning
OWNERSHIP: Unknown
SEC: 35 ,T: 9N ,R: 34E
North: 4271732 East: 398524
PRODUCTION: Some but amount unknown
HISTORY: Unknown
DEVELOPMENT: 50x20x10 foot pit...other smaller pits...some materials stockpiled.
GEOLOGY: Pod-like ore body of highly oxidized iron ore along a N60 degree E shear hosted in Luning Limestone.
REMARKS:
SAMPLE SITE: 3554
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-9-89
Attachment:

PROPERTY NAME: Silver Cross claims
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Mina NW
OWNERSHIP: Emery C. Cameron
SEC: 10 ,T: 6N ,R: 34E
North: 4249981 East: 396905
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Five adits and several prospects
GEOLOGY: The workings are associated with a thrust fault zone where a coarse-grained turbidite unit has been thrust over a chert and metavolcanic unit. All of the rocks are of Paleozoic age and are highly fractured. The vein and mineralization are disseminated throughout the gouge.
REMARKS: A fair road north of the main road across Garfield Flat.
SAMPLE SITE: 3616
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-2-89
Attachment:

PROPERTY NAME: Sunrise mine
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, lead, copper
TYPE OF DEPOSIT: Shear zone with quartz
QUAD SHEET: Sunrise Flat
OWNERSHIP: Unknown
SEC: ,T: 8N ,R: 35E
North: 4263769 East: 406169
PRODUCTION: Some but amount unknown
HISTORY: Unknown but very old workings
DEVELOPMENT: A 100 foot shaft and crosscutting adit that intercepts the shaft atthe fifty foot level.
GEOLOGY: Almost E-W striking shear in limestone with 80 degree S dip. The main adit is caved but exposes a 4 foot shear zone with quartz stringers. The ore is oxidized and iron-stained but argentiferous galena was reported to have been present along with carbonates of copper and lead. Sample was taken from the dumps.
REMARKS:
SAMPLE SITE: 3545
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-8-89
Attachment:

PROPERTY NAME: Todd mine
OTHER NAMES: Luning Gold mine
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, lead
TYPE OF DEPOSIT: Replacement in limestone along veins
QUAD SHEET: Luning
OWNERSHIP:
SEC: ,T: 8N ,R: 34E
North: 4270585 East: 399407
PRODUCTION: Small
HISTORY: Some of the workings are fairly new but the first workings are before the 1950's.
DEVELOPMENT: One hundred and fifty foot shaft, several hundred feet of workings on the Nogel vein. 100-foot incline and additional workings on the red vein.
GEOLOGY: The northern N60E, 70 degrees SE-dipping Nogel vein ranges in thickness from 4 inches to 2 feet. The workings follow the vuggy-copper-iron-stained vein in granite. Some newer work on the lower adit is evident from the new timbering. The old ore-bin is still in place below these workings. Sample 3536 was from the dumps associated with the upper workings.
REMARKS:
SAMPLE SITE: 3536
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-7-89
Attachment:

PROPERTY NAME: Western Metals Co. Inc.
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Sunrise Flat
OWNERSHIP: Max Swanger of Dyer Nevada
SEC: ,T: 8N ,R: 35E
North: 4265845 East: 409464
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Very steep roads open cuts and old cabin at the bottom of the hill.
GEOLOGY: Old adit with 5 foot tactire zone has been exposed by an open cut about fifty by seventy-five feet. Several other shallower adits have also been dozed. The old and new workings follow an irregular contact between the Luning Limestone and a younger granite. Some of the tactite carries scheelite but only a small amount of the contact zone is exposed...The size and shape of the workings could not have produced much ore. Sample 3542 was taken from the pit and dumps and contained some tungsten with minor copper and magnetite.
REMARKS:
SAMPLE SITE: 3542
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-8-89
Attachment:

PROPERTY NAME: Windup mine
OTHER NAMES:
MINING DISTRICT: Santa Fe
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Mina NW
OWNERSHIP: F. W. Reinmiller and S. Schatt
SEC: 6 ,T: 7N ,R: 34E
North: 4260276 East: 392616
PRODUCTION: A head sample of 374 tons of ore was treated at the Sodaville mill averaged 0.45% WO3.
HISTORY: Unknown
DEVELOPMENT: Two inclines totaling 130 feet and a 450 foot adit along with numerous prospects.
GEOLOGY: The major workings are along a contact zone between Luning Limestone, felsite, and metavolcanics of Triassic and Tertiary age. These rocks are reported to be on the north limb of an anticline which has been overturned by a thrust fault. There are also adjustment faults parallel to the limestone and felsite. Small pods of skarn occur in the limestone. The felsite contains much secondary pyrite which has been oxidized to hematite at the surface. The contact is irregular but trends to the north.
REMARKS: About 3-1/2 miles southwest of Luning.
SAMPLE SITE: 3610
REFERENCES: Johnson, A.C. & Benson, W.T., 1963, Tungsten Resources of Nevada USBM
EXAMINER: Jack Quade
DATE VISITED: 5-1-89
Attachment:

PROPERTY NAME: Fondaway Canyon mine
OTHER NAMES: Quick-Tung mine
MINING DISTRICT: Shady Run
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, antimony, tungsten, mercury
TYPE OF DEPOSIT: Fault zone, tabular
QUAD SHEET: Dixie Hot Springs
OWNERSHIP: R. Fisk; Tundra Resources (1986)
SEC: 6 ,T: 22N ,R: 34E
North: 4406250 East: 397350
PRODUCTION: Approx. 10,000 units W, some Hg, Sb, Au
HISTORY: Fisk family produced tungsten ore commencing in 1958
DEVELOPMENT: Several open cuts, adits, open stopes, drill roads
GEOLOGY: Phyllite, slate, quartzite, and marble of Triassic age; highly folded and cut by a granite stock north of Fondaway Canyon. Scheelite, cinnabar, and stibnite occur in WNW-trending marble beds in Fondaway Canyon. No skarn is present, but some scheelite is associated with quartz veinlets in the marble. The scheelite occurs as large crystals up to 10 cm across in marble; cinnabar occurs in late fractures cutting the marble; stibnite occurs as massive lenses in marble, and gold ore occurs in phyllite. The gold mineralization occurs in N71E-striking faults which cut phyllite and quartzite. The fault zones are brecciated and silicified, are nearly vertical, and range up to 3 meters wide. The sulfide ore contains pyrite, stibnite, and arsenopyrite and is typically carbonaceous.
REMARKS: 4.4 million tons of 0.134 oz/ton gold have reportedly been developed here, but much of it is refractory and therefore probably not open pittable at present gold prices
SAMPLE SITE: 3301, 3302, 3303, 3304
REFERENCES: NBMG Bulletins 61, 83, 105; Schrader Carson Sink report
EXAMINER: H. F. Bonham, Jr.
DATE VISITED: May 22, 1986
Attachment:

PROPERTY NAME: Nick Sullivan prospect
OTHER NAMES: Sample site 4339
MINING DISTRICT: Shady Run
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Dixie Hot Springs
OWNERSHIP:
SEC: 11 ,T: 22N ,R: 33E
North: 4405022 East: 394508
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: old drift, pit
GEOLOGY: Massive white quartz vein, pod-like, lenses up to 4-feet thick, along a NS-striking, 70-degree east dipping shear zone in steeply-dipping meta-volcanic rock. Vein appears to be cut on the north side of the pit (toward the wash) by a N65E-striking, vertical shear zone which is parallel to cleavage in wall rock. The meta-volcanic rock is fine-grained, has steep, columnar jointing exposed in the canyon walls to the north. Could be a dike with the vein within the dike. The vein contains sulfide boxworks, some pyrite cubes up to 1-inch across.
REMARKS: Old drift follows the vein, pit connects with the drift.
SAMPLE SITE: 4339
REFERENCES: Schrader, 1947, p. 306
EXAMINER: J. V. Tingley
DATE VISITED: July 25, 1989
Attachment:

PROPERTY NAME: 1905 mine
OTHER NAMES:
MINING DISTRICT: Silver Star
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Veins in fracture zones
QUAD SHEET: Camp Douglas
OWNERSHIP: Unknown
SEC: 33 ,T: 6N ,R: 34E
North: 4244146 East: 395144
PRODUCTION: Reported to have medium production.
HISTORY: Mines in the camp were active between 1893 and 1903; there has been exploratory drilling in recent years and more is expected in the near future.
DEVELOPMENT: Several shafts and adits although more of the adjacent workings may also be included.
GEOLOGY: Most of the workings are along quartz veins in silicified conglomerate of the Dunlap Formation. The major shaft and adits follow a N60 degrees E direction in conglomerate.
REMARKS:
SAMPLE SITE: 3582
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-19-89
Attachment:

PROPERTY NAME: Maryann mine
OTHER NAMES:
MINING DISTRICT: Silver Star
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein deposit
QUAD SHEET: Camp Douglas
OWNERSHIP: Unknown
SEC: 27 ,T: 6N ,R: 34E
North: 4244878 East: 396456
PRODUCTION: Small
HISTORY: The camp was most active from 1893 to 1903 although several large companies have leased the camp in the past ten years and there have been several drilling programs conducted.
DEVELOPMENT: Several adits and at least three shafts, a loading bin, trenching and pits.
GEOLOGY: Most of the workings are in kaolinized andesite, but one of the main adits is in a lavender, silicified, tuff breccia. The adit explores a N5 degrees E, 60 degrees SW, 6-inch vein. There were no visible minerals and the vein consisted of quartz stringers and altered, silicified gouge.
REMARKS: Sample taken from 20 feet inside the adit.
SAMPLE SITE: 3581
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-19-89
Attachment:

PROPERTY NAME: New Party mine
OTHER NAMES:
MINING DISTRICT: Silver Star
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Veins in fracture zones
QUAD SHEET: Camp Douglas
OWNERSHIP: Unknown
SEC: 33 ,T: 6N ,R: 34E
North: 4243544 East: 395193
PRODUCTION: Production figures for the camp are lumped together showing $500,000 for the period 1893 to 1903 and a total of $2,000,000 total, mostly in gold.
HISTORY: Discovery of mineralization in the camp is credited to T. Pepper and E. Grassi in 1903 but active mining in the camp continued through the 1930's.
DEVELOPMENT: The New Party workings are part of the most active portion of the camp and concentrated on the northern flank of Thunder Mountain.
GEOLOGY: The main workings explore a portion of the N85 degrees W 40-70 degrees SW quartz vein system hosted in Mesozoic volcaniclastic and volcanic rocks. The veins in this the central portion of the camp were described as being from 7- to 16-feet wide consisting of sugary white quartz with finely crystalline adularia. The main metallic mineralization consisted of free gold and pyrite.
REMARKS:
SAMPLE SITE: 3583
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-19-89
Attachment:

PROPERTY NAME: Red Fox claims
OTHER NAMES:
MINING DISTRICT: Silver Star
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Teels Marsh
OWNERSHIP: Dan Bracket, P.O. Box 261, Mina, NV
SEC: ,T: 4N ,R: 33E
North: 4231228 East: 388897
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: Five prospect pits
GEOLOGY: The prospect pits are along a contact between black meta-sediments and granite and explore mineralization consisting of copper oxides and minor contact minerals. The granite is itself locally cut by alaskite dikes.
REMARKS:
SAMPLE SITE: 3576
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-19-89
Attachment:

PROPERTY NAME: Section 29 workings
OTHER NAMES:
MINING DISTRICT: Silver Star
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Camp Douglas
OWNERSHIP: Unknown
SEC: 29 ,T: 6N ,R: 34E
North: 4245287 East: 393255
PRODUCTION: None
HISTORY:
DEVELOPMENT: Dozer-cuts of older workings.
GEOLOGY: Older workings follow a N55 degrees E 75NW shear in volcanic sediments. The dozing exposed a contact between granite and conglomerate of the Dunlap Formation. Mineralization was confined to copper oxides and sulfides, epidote and other contact minerals.
REMARKS:
SAMPLE SITE: 3586
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-20-89
Attachment:

PROPERTY NAME: Star #10 claim
OTHER NAMES: Antimony Blossom prospect (?)
MINING DISTRICT: Silver Star
COUNTY: Mineral
MINERAL COMMODITY(IES): antimony
TYPE OF DEPOSIT: vein
QUAD SHEET: Mina NW
OWNERSHIP: Unknown
SEC: 15 ,T: 6N ,R: 34E
North: 4248038 East: 397352
PRODUCTION: None
HISTORY: Unknown; most of the dozer work is within the last two years.
DEVELOPMENT: Large dozer-cuts here and to the west.
GEOLOGY: North trending shear zone has been exposed for about 70 feet by a dozer-cut in dominately massive chert interbedded with sandstone. Stibnite in lenticular pods or massively in quartz stringers, occurs within the shear zone.
REMARKS: The dozing is very recent but there has not been any follow up work.
SAMPLE SITE: 3585
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-20-89
Attachment:

PROPERTY NAME: Capricorn claims
OTHER NAMES: Sand Pass bentonite
MINING DISTRICT: Smoke Creek Desert
COUNTY: Washoe
MINERAL COMMODITY(IES): montmorillonite clay
TYPE OF DEPOSIT: bedded
QUAD SHEET: Red Rock Canyon
OWNERSHIP:
SEC: 18 ,T: 30N ,R: 19E
North: 4484500 East: 0254800
PRODUCTION: None
HISTORY:
DEVELOPMENT: Three trenches between 20 and 100 feet long and as much as 3 feet deep; one pit 2 feet deep and 5 feet in diameter.
GEOLOGY: Remnant pediment or fan of pre-Lake Lahontan alluvial sediments over an area of about 300 acres with an estimated thickness of 50 feet. The material consists of more than 30 percent montmorillinitic clay, less than 30 percent feldspar, and less than 10 percent each calcite, gypsum, and diatoms (Diggles and others, 1988, p. D17).
REMARKS:
SAMPLE SITE:
REFERENCES: Diggles, M. F., Frisken, J. G., Plouff, D., and Linne, J. M., 1988, Mineral resources of the Dry Valley Rim Wilderness Study Area, Washoe County, Nevada, and Lassen County, California: U.S. Geological Survey Bulletin 1706-D, 17 p.
EXAMINER:
DATE VISITED:
Attachment:

PROPERTY NAME: Red Rock zeolite occurrence
OTHER NAMES:
MINING DISTRICT: Smoke Creek Desert
COUNTY: Washoe
MINERAL COMMODITY(IES): zeolite
TYPE OF DEPOSIT: bedded
QUAD SHEET: Red Rock Canyon
OWNERSHIP:
SEC: 12 ,T: 30N ,R: 18E
North: 4485500 East: 0253300
PRODUCTION: None
HISTORY:
DEVELOPMENT: None

GEOLOGY: Chabazite fills voids in altered basalt over an area of about 150 acres with estimated thickness of 200 feet. The deposit centers on a basalt dike and may be related to a north-trending fault (Diggles and others, 1988, p. D17).

REMARKS: Eleven samples were taken; samples contained between 36 and 70 percent chabazite with a sample weighted average of 53 percent. The deposit contains an estimated 70 million tons of subeconomic zeolite-bearing resources (Diggles and others, 1988, p. D17).

SAMPLE SITE:

REFERENCES: Diggles, M. F., Frisken, J. G., Plouff, D., and Linne, J. M., 1988, Mineral resources of the Dry Valley Rim Wilderness Study Area, Washoe County, Nevada, and Lassen County, California: U.S. Geological Survey Bulletin 1706-D, 17 p.

EXAMINER:
DATE VISITED:
Attachment:

PROPERTY NAME: Rocky Springs zeolite occurrence
OTHER NAMES:
MINING DISTRICT: Smoke Creek Desert
COUNTY: Washoe
MINERAL COMMODITY(IES): zeolite
TYPE OF DEPOSIT: bedded
QUAD SHEET: Red Rock Canyon
OWNERSHIP:
SEC: 25 ,T: 30N ,R: 18E
North: 4481300 East: 0253250
PRODUCTION: None
HISTORY:
DEVELOPMENT: None
GEOLOGY: Chabazite fills voids in altered basalt over an area of about 20 acres with an estimated thickness of 25 feet. The deposit may be related to a north-trending fault.
REMARKS: Four samples taken contained between 10 and 45 percent chabazite with a weighted average of 29 percent (Diggles and others, 1988, p. D17).
SAMPLE SITE:
REFERENCES: Diggles, M. F., Frisken, J. G., Plouff, D., and Linne, J. M., 1988, Mineral resources of the Dry Valley Rim Wilderness Study Area, Washoe County, Nevada, and Lassen County, California: U.S. Geological Survey Bulletin 1706-D, 17 p.
EXAMINER:
DATE VISITED:
Attachment:

PROPERTY NAME: Willow Springs zeolite occurrence
OTHER NAMES:
MINING DISTRICT: Smoke Creek Desert
COUNTY: Washoe
MINERAL COMMODITY(IES): zeolite
TYPE OF DEPOSIT: bedded
QUAD SHEET: Red Rock Canyon
OWNERSHIP:
SEC: 6 ,T: 29N ,R: 19E
North: 4478000 East: 0254000
PRODUCTION: None
HISTORY:
DEVELOPMENT: None
GEOLOGY: Chabazite fills voids in altered basalt over an area of about 70 acres with an estimated thickness of 100 feet. The deposit may be related to a north-trending fault.
REMARKS: Three samples taken contained from 35 to 65 percent chabazite with a weighted average of 52 percent. The deposit contains an estimated 15 million tons of subeconomic zeolite-bearing resources (Diggles and others, 1988, p. D17).
SAMPLE SITE:
REFERENCES: Diggles, M. F., Frisken, J. G., Plouff, D., and Linne, J. M., 1988, Mineral resources of the Dry Valley Rim Wilderness Study Area, Washoe County, Nevada, and Lassen County, California: U.S. Geological Survey Bulletin 1706-D, 17 p.
EXAMINER:
DATE VISITED:
Attachment:

PROPERTY NAME: Antelope mine
OTHER NAMES: Mars-Homestake mine
MINING DISTRICT: Stateline Peak
COUNTY: Washoe
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: skarn; vein
QUAD SHEET: Reno NW
OWNERSHIP:
SEC: 31,32 ,T: 22N ,R: 18E
North: 4402202 East: 243277
PRODUCTION: Minor?
HISTORY:
DEVELOPMENT: Three adits and 2 shafts. Probably hundreds of meters of workings.
GEOLOGY: Limonite and oxide copper minerals (principally chrysocolla and copper pitch) occur with quartz, black tourmaline, and epidote in a northwest trending vein which Bonham (1969, p.89) reports to extend for 4,000 feet and be up to 5 ft. wide. The workings appear to follow a N40W trend, and a probable strand of the vein in an upper adit had an attitude of N30W, 70 degrees SW. Tourmaline (black) is the most common gangue mineral, being more common than quartz. Fragments of vein and mineralized wallrock exhibit tourmaline veins, veinlets, stockworks, breccia fillings and banded veins. The banded veins consist of bands of tourmaline in 1-2 cm veins with, locally coarse epidote and limonite after pyrite(?) in the central part. Epidote occurs alone as veinlets up to 1 cm wide and as veinlets which cross-cut veinlets and veins of black tourmaline. In other samples, tourmaline, quartz, epidote, and sulfides (now limonite) seem to be intergrown. At least some epidote is apparently later than tourmaline. Some tourmaline veins in dump samples are massive tourmaline up to 4 cm wide. The wallrock for the mineralization is part of a large (Cont. Attachment)
REMARKS: Photo 30 is of dumps of the upper adits. Sample 4507 is select quartz-tourmaline vein matter. Photo 31 is a distant shot of a yellow small bulldozer near a black, ledge-like vein outcrop. Sample 4508 is grab from vein of tourmaline with minor copper and iron oxide minerals. Sample 4509 is serrcitized wallrock for possible age date.
SAMPLE SITE: 4507, 4508, 4509
REFERENCES: Bonham, H.F., Jr., 1969, NBMG Bull 70.
EXAMINER: L. J. Garside
DATE VISITED: 7-19-89

Attachment: intrusive mass of dacite in the Jurassic(?) Peavine sequence. This unit extends for over 5 km along the range crest, mainly to the south of this area. it is intruded by Cretaceous granodiorite 0.5-1 km to the north. This dacite locally resembles and may be related to rocks called granodiorite porphyry near Granite Peak southwest of Silver Lake (Lemmon Valley). The vein crops out near the lower shafts where it is 5-6m wide and over 90% tourmaline with minor quartz and limonite. Oxide copper minerals are sparse here. The vein has an attitude of N30W, 70 degrees SE; the line of workings trends N45W to the vein outcrop. Coarse to fine sericite occurs in the wallrock adjacent to the vein.

PROPERTY NAME: Red Rock Estates gravel pit
OTHER NAMES:
MINING DISTRICT: Stateline Peak
COUNTY: Washoe
MINERAL COMMODITY(IES): gravel
TYPE OF DEPOSIT:
QUAD SHEET: Reno NE
OWNERSHIP: Red Rock Estates Property Owners Assoc.
SEC: 29 ,T: 22N ,R: 19E
North: 4403550 East: 254500
PRODUCTION: Minor
HISTORY: Probably developed in last 10-15 years
DEVELOPMENT: Bulldozer cuts and trenches
GEOLOGY: Stream collurium and fractured bedrock fragments of Mesozoic quartz diorite have been mined for local use for road gravel and sub-base material (moderate)
REMARKS: Photo 1 is of fence and sign at property. Pit is in the SE/4, NW/4, NE/4, Sec. 29
SAMPLE SITE:
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Stateline Peak
COUNTY: Washoe
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Vein(?)
QUAD SHEET: Reno NW
OWNERSHIP:
SEC: 22 ,T: 21N ,R: 18E
North: 4396020 East: 247240
PRODUCTION: None
HISTORY:
DEVELOPMENT: Small prospect pit. Larger pits in vicinity are probably also for copper.
GEOLOGY: Green oxide copper minerals occur as fracture coatings in Mesozoic granodiorite. Sparse milky quartz veining is noted; no sulfide minerals observed. No obvious alteration.
REMARKS: Sample 3419 is select oxide copper coatings on Mesozoic granodiorite. Sparse, milky, vein quartz is noted.
SAMPLE SITE: 3419
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 2-12-87
Attachment:

PROPERTY NAME: Steamboat Springs mine
OTHER NAMES:
MINING DISTRICT: Steamboat Springs
COUNTY: Washoe
MINERAL COMMODITY(IES): Mercury
TYPE OF DEPOSIT: hot-spring
QUAD SHEET: MT. Rose NE
OWNERSHIP:
SEC: 32 ,T: 18N ,R: 19E
North: 4362900 East: 262320
PRODUCTION: Exact production prior to 1950 is unknown but thought to be small, 100 flasks mercury produced between 1968 and 1969.
HISTORY: Dposits were discovered by Thomas Wheeler in 1875 who sold to the Nevada Quicksilver Mining Co. in 1877; they erected a furnace and worked the ground for both mercury and sulfur. From then to 1969, the deposits were worked intermittently for mercury, sulfur, silica, and refractory clays.
DEVELOPMENT: Several open-pits, roads, and an ore-bin
GEOLOGY: The deposits at Steamboat Springs are a product of a hot spring system that has been active for the last several million years. Metallic mineralization associated with these deposits include: mercury, antimony, silver, and gold, along with nonmetallic minerals such as silica, sulfur, and refractory clays. The hydrothermal solutions have altered the overlying granodiorite wall rocks and overlying basalt to a white, silicified mass. Sample 4448 was taken from a contact zone in the old chalcedonic pit in the northwest portion of Section 32. In this zone, visable cinnabar and pyrite occur in a matrix of chalcedonic silica. Sample 4450 was taken from a 25-foot-wide shear zone, stiking N45W in highly altered granite which is overlain by Tertiary Lousetown basalt. This open pit was first mined in the late 1870's by the Nevada Quicksilver Co. and in 1968-1969 by the Old Enterprise Co. Along the western boundary of the pit, adjacent to a large surface exposure of sulfur, is a capped geothermal well drilled by Phillips Petroleum in the 1970's.
REMARKS: Mr. Ed Jusevic provided information on the Old Enterprise mining operation active on this property in 1968-69, Jusevic, a local mining engineer, worked on this project. This may have been one of the last small mercury mining operations in Nevada
SAMPLE SITE: 4449, 4450
REFERENCES: Bailly and Phoenix, NBMG Bulletin 41
Thompson and White, 1964, USGS Prof. Paper 458-A
EXAMINER: Jack Quade
DATE VISITED: November 10, 1989
Attachment:

PROPERTY NAME: Wheeler prospect
OTHER NAMES: Wheeler Ranch prospect
MINING DISTRICT: Steamboat Springs
COUNTY: Washoe
MINERAL COMMODITY(IES): Mercury
TYPE OF DEPOSIT: hot-spring
QUAD SHEET: MT. Rose NE
OWNERSHIP:
SEC: 4 ,T: 18N ,R: 19E
North: 4371600 East: 255140
PRODUCTION: Retort operated at the site during the early 1940's, but no production figures available
HISTORY: The deposit was discovered in 1875 by John Poe, making it one of the earliest known occurrences of cinnabar in the state. Shortly after the discovery, the Nevada State Quicksilver Mining Company explored the deposit with 260 feet of drifts; work thereafter was intermittent.
DEVELOPMENT: All of the workings were caved at the surface as early as 1943 and are still in that condition today. The underground workings were reported to consist of a 164-foot drift trending N19 degrees W along a fault, and a 45-foot winze sunk from the same drift.
GEOLOGY: The now-caved adit was driven on a 10-foot-wide, vertical shear striking N19W in highly altered volcanic rocks. Material within the shear includes partially cemented breccia clasts in a matrix of silica, argillitically altered wall rock, and chalcedony with wispy, fine-grained pyrite. Cinnabar forms clusters in open-spaces along minute fractures. Silica veinlets extend away from the main vein system and into the highly-altered volcanic wall rocks. The deposit appears to have been a hot spring.
REMARKS: The prospect is presently within the boundaries of the Gaspari Ranch, and is part of a trust of the late Caesar Gaspari
SAMPLE SITE: 4448
REFERENCES: Bailly and Phoenix, 1944, NBMG Bulletin 41
EXAMINER: Jack Quade
DATE VISITED: October 20, 1989
Attachment:

PROPERTY NAME: Lovelock mine
OTHER NAMES:
MINING DISTRICT: Table Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): Nickel, cobalt
TYPE OF DEPOSIT: synorogenic-synvolcanic nickel-copper
QUAD SHEET: Humboldt Salt Marsh
OWNERSHIP:
SEC: 34 ,T: 25N ,R: 36E
North: 4427550 East: 422000
PRODUCTION:
HISTORY:
DEVELOPMENT: Numerous adits and shafts; many of which are still open and accessible
GEOLOGY: Mineralization as fissure-fillings in prepared (fractured) mafic volcanic rocks.
REMARKS: Limonitic material was collected for sample 2370
SAMPLE SITE: 2370
REFERENCES: Ferguson, 1939, NBMG Bulletin 32
EXAMINER: Paul Lechler
DATE VISITED: August 24, 1984
Attachment:

PROPERTY NAME: Nickel mine
OTHER NAMES:
MINING DISTRICT: Table Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): nickel, copper
TYPE OF DEPOSIT: synorogenic-synvolcanic nickel-copper
QUAD SHEET: Humboldt Salt Marsh
OWNERSHIP:
SEC: 35 ,T: 25N ,R: 36E
North: 4426875 East: 423000
PRODUCTION:
HISTORY:
DEVELOPMENT: Numerous adits, stopes; most of which are open and accessible
GEOLOGY: Mineralization in shear zone along a normal fault juxtaposing hanging wall sedimentary rocks (mostly limestone) against footwall diorite.
REMARKS: Sample 2371 is of vein matter from shear zone
SAMPLE SITE: 2371
REFERENCES: Ferguson, 1939, NBMG Bulletin 32
EXAMINER: L.G. Garside
DATE VISITED: August 8, 1984
Attachment:

PROPERTY NAME: Treasure Box mine
OTHER NAMES:
MINING DISTRICT: Table Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): nickel, cobalt, copper
TYPE OF DEPOSIT: synorogenic-synvolcanic nickel-copper
QUAD SHEET: Humboldt Salt Marsh
OWNERSHIP:
SEC: 7 ,T: 24N ,R: 36E
North: 4424650 East: 417100
PRODUCTION: Evidence of small amount of production
HISTORY:
DEVELOPMENT: Numerous shafts, adits, stopes; most of which are open and accessible
GEOLOGY: Mineralization occurs along fault shear zones in Jurassic mafic volcanic rocks. Mineralization is accompanied by limonite deposition and serpentitization of volcanic rocks within the shear zone.
REMARKS: No activity at the time of examination
Sample 2369 is select mineralized material from the shear zones
SAMPLE SITE: 2369
REFERENCES: Ransome, 1909, USGS Bulletin 414
EXAMINER: Paul Lechler
DATE VISITED: Sept. 7, 1984
Attachment:

PROPERTY NAME: Section 2 inclines
OTHER NAMES:
MINING DISTRICT: Talapoosa
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Stockton Well
OWNERSHIP: Unknown
SEC: 2 ,T: 18N ,R: 24E
North: 4369624 East: 305690
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Four incline shafts, vestiges of a small mill plus visible underground drifts.
GEOLOGY: Two inclines were sunk on a north-south shear while two others explore an east-west shear. Both of the enclosed veins consist of quartz stringers and quartz breccia with silicified gouge. The volcanic wall rocks are partially argillically altered.
REMARKS: The small mill was being fed vein material crushed to 1/4"-1/2'; sample 4286 was taken from the exposed vein and dumps.
SAMPLE SITE: 4286
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-6-89
Attachment:

PROPERTY NAME: Section 2 shaft
OTHER NAMES:
MINING DISTRICT: Talapoosa
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Stockton Well
OWNERSHIP: Athena Gold Corp., 5301 Longley Lane, Suite 37 B, Reno, NV
SEC: 2 ,T: 18N ,R: 24E
North: 4369473 East: 305368
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Three shafts, obliterated by dozer-cuts.
GEOLOGY: Within the vicinity of the shafts is a massive outcrop striking N 70 degrees W that was exposed by the older workings and further cut by dozing and drilling sites. The exposed vein consists of highly silicified, iron-rich, quartz breccia with minor clots of pyrite.
REMARKS:
SAMPLE SITE: 4285
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-6-89
Attachment:

PROPERTY NAME: Section 27 prospect
OTHER NAMES:
MINING DISTRICT: Talapoosa
COUNTY: Lyon
MINERAL COMMODITY(IES): unknown
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Fernley West
OWNERSHIP:
SEC: 27 ,T: 20N ,R: 24E
North: 4381815 East: 305175
PRODUCTION:
HISTORY:
DEVELOPMENT: Several small prospect pits
GEOLOGY: A calcite vein with a trend of N70W, 90 degrees(?) cuts black, tertiary vesicular basalt flows. The calcite occurs as coarse to fine crystals, and is banded and colored yellow, brown, red, purple, and white. Oxidized material is stained with limonite. The above is at sample locality 4115. 200m to the southwest, a similar vein of calcite (with a N60E, 90 degree) cuts basalt. Rocks are not obviously hydrothermally altered.
REMARKS: Sample 4115 is select vein calcite from dump and pit walls.
SAMPLE SITE: 4115
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-1-89
Attachment:

PROPERTY NAME: Section 34 gold prospect
OTHER NAMES:
MINING DISTRICT: Talapoosa
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Stockton Well
OWNERSHIP: Unknown
SEC: 34 ,T: 19N ,R: 24E
North: 4371874 East: 303488
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Prospects
GEOLOGY: A 50- to 100-foot-thick, east-striking rhyolite dike with a quartz vein along its north side has been prospected by open pits. The vein is composed of quartz and quartz breccia both of which contain light-gray, wispy streaks of pyrite.
REMARKS:
SAMPLE SITE: 4287
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-6-89
Attachment:

PROPERTY NAME: Section 34 mercury prospect
OTHER NAMES:
MINING DISTRICT: Talapoosa
COUNTY: Lyon
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: hot-spring
QUAD SHEET: Stockton Well
OWNERSHIP: Unknown
SEC: 34 ,T: 19N ,R: 24E
North: 4371192 East: 304082
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Prospect pit and dozer-cuts
GEOLOGY: A massive outcrop of opaline quartz crops out in sediments of Tertiary age east of the Radio Tower road northeast of Talapoosa. The outcrop has been prospected along both sides of its 75 foot exposure. The opaline material may contain mercury but it also contains considerable reddish iron oxides. In many places, the material is chalcedonic with wispy reddish and gray inclusions.
REMARKS:
SAMPLE SITE: 4288
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-6-89
Attachment:

PROPERTY NAME: Talapoosa mines
OTHER NAMES: Christianson shaft, Dyke adit
MINING DISTRICT: Talapoosa
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Stockton Well
OWNERSHIP: Athena Gold Corp, 5301 Longley Lane, Suite 37B, Reno, NV
SEC: 3 ,T: 18N ,R: 24E
North: 4369334 East: 304447
PRODUCTION: $12,401 prior to 1940; 7,530 tons valued at $304,151 for the years 1939-1942
HISTORY: Unknown discovery date; operated prior to 1940 but dates are not known and was active from 1939-1942. Active recently in a drilling and exploration by Athena Gold Corp.
DEVELOPMENT: Old workings consist of approximately 11 shafts, 15 adits and numerous prospects strung-out east-west for slightly more than a mile. Much of the new work is roads, drill-pads, dozer-cuts and trenches, along the same general boundaries.
GEOLOGY: The major area and historically most active portion of the district lies in a narrow east-west zone approximately a half mile wide and a mile and a half long. The country rock consists almost entirely of hydrothermally altered, highly silicified dacitic rocks of the Tertiary Kate Peak Fm. The gold-silver mineralization was restricted to east-striking, south-dipping, silicified shear zones. Cross-cut workings expose a N 80 degrees W-striking, 7-footh thick quartz breccia vein, parallel but adjacent to the southside of a massive andesite dike that forms a prominent west-striking outcrop to the west of the principal workings.
REMARKS: The principal development work was reported to have been from the 800 foot tunnel and inclined winze that was known as the Christian shaft. Sample 4283 was taken from the dump and workings associated with that property. Sample 4284 was taken from the adits and loading shoot adjacent to the Dyke Adit.
SAMPLE SITE: 4283, 4284
REFERENCES: Moore, J.G., 1969 Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75.
Stoddard, Carl, and Carpentar, J.A., 1950, Mineral Resources of Storey and Lyon Counties, Nevada; NBMG Bull 49.
EXAMINER: Jack Quade
DATE VISITED: 6-6-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Talapoosa
COUNTY: Lyon
MINERAL COMMODITY(IES): unknown
TYPE OF DEPOSIT: Vein
QUAD SHEET: Fernley West
OWNERSHIP:
SEC: 22 ,T: 20N ,R: 24E
North: 4383705 East: 304225
PRODUCTION:
HISTORY:
DEVELOPMENT: Several shallow bulldozer cuts
GEOLOGY: A narrow (25 cm?) calcite vein cuts fresh black basalt at a small outcrop in a trench. The vein appears to trend north and may be high angle. The vein matter is white, brown, and thin black bands of coarsely crystalline calcite. No obvious metallization or hydrothermal alteration is noted, and the vein may have been formed by cold, descending groundwater. Prospect symbols on the topographic map shown to the north of sample locality 4113 are mostly obscure or nonexistent, and their purpose is unknown. At the north end of this line of prospects, in SW/4 NW/4 Sec. 22 a pit in white, pebbly tuff interbedded in basalt has no obvious alteration or veining. Some workings may also be for agate, which occurs as amygdules in basalt and as round "Thunder eggs" up to 31cm. The prospect symbols shown mainly in the center and SE/4 of Sec. 16 to the north are mainly to entirely not there; possibly small areas of white tuff were interpreted as pits. A prospect symbol in NE/NE/4 S21 is a small borrow pit for gravel, and one in SW/4 SW/4 Sec. 15 is not a prospect but a patch of quaternary sediments.
REMARKS: Sample 4113 is select coarsely crystalline, banded vein calcite.
SAMPLE SITE: 4113
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-1-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Talapoosa
COUNTY: Lyon
MINERAL COMMODITY(IES): unknown
TYPE OF DEPOSIT: Mineralized fault
QUAD SHEET: Fernley West
OWNERSHIP:
SEC: 27 ,T: 20N ,R: 24E
North: 4382542 East: 304680
PRODUCTION: None
HISTORY:
DEVELOPMENT: Moderate-sized prospect pit and short, inclined shaft.
GEOLOGY: Iron and manganese oxide minerals occur as fracture coatings in a N30E, 40 NW fault zone having a footwall crush zone of several meters. Mullions? in the fault surface appear to rake about 90 degrees. Welded tuff may be tuff of Chimney Springs. Mineralization may be due to cold ground water; no hydrothermal alteration was noted. Prospects shown on topographic map to southeast are either very obscure or nonexistent.
REMARKS: Sample 4114 is of select rock fragments with iron and manganese oxides. From dump and outcrop. Photo 23 is of red tuff in pit.
SAMPLE SITE: 4114
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-1-89
Attachment:

PROPERTY NAME: Nevada Gold group
OTHER NAMES: Stony Canyon mines, Kanev claims
MINING DISTRICT: Tungsten Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Edwards Cr. Valley
OWNERSHIP:
SEC: 8, 17 ,T: 21N ,R: 38E
North: 4393800 East: 438058
PRODUCTION:
HISTORY:
DEVELOPMENT: Adits and shafts, cuts along NE-trending vein system
GEOLOGY: Mine workings are along a NS to N10E striking, 40-50 degree W-dipping quartz vein. The vein is up to 1 foot thick and generally follows the footwall contact of a 15 foot thick aplite dike that cuts phyllite. The vein follows a gossany shear zone along the footwall contact. The vein material is white, vuggy, displays lamellar texture, and contains clots of tetrahedrite and possibly jamesonite. Disseminated pyrite and stibnite(?) occurs in some portions of the vein. The aplite dike is kaolinized near its borders and displays a 50 degree E-dipping joint set that is perpendicular to the dike walls. The phyllite wall rock is contorted but strikes generally N30W to NS and dips 50-60 degrees NE to E
REMARKS: Most extensive workings are at the intersection of the vein system with Stony Canyon, adit here was driven south. Recent work has dozed material away from the old portal. Other workings follow strike to the south, adits on the south side of the side canyon are flooded but vein can be seen in their backs. The vein system projects at least 2000 feet south to workings seen on the crest of the ridge between Stony and Augusta Canyons
SAMPLE SITE: 4004
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: April 19, 1989
Attachment:

PROPERTY NAME: Rocky Canyon prospect
OTHER NAMES:
MINING DISTRICT: Tungsten Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Edwards Cr. Valley
OWNERSHIP:
SEC: 29 ,T: 21N ,R: 38E
North: 4389583 East: 437349
PRODUCTION:
HISTORY:
DEVELOPMENT: Old, 10-foot adit
GEOLOGY: Adit was driven in shaly argillite along a brecciated, gossany quartz vein. The vein is 3-4 inches thick, strikes N20W, and dips 45 degrees NE. The only signs of mineral are limonite staining in the vein and adjacent argillite.
REMARKS: Workings are old, no signs of recent work
SAMPLE SITE: 4007
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: April 19, 1989
Attachment:

PROPERTY NAME: Scott prospect
OTHER NAMES:
MINING DISTRICT: Tungsten Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, molybdenum
TYPE OF DEPOSIT: vein
QUAD SHEET: Edwards Cr. Valley
OWNERSHIP:
SEC: 21 ,T: 21N ,R: 38E
North: 4391306 East: 439522
PRODUCTION:
HISTORY:
DEVELOPMENT: Two LHD declines, cuts along the face of Tungsten Mountain

GEOLOGY: Lenticular quartz veins follow near-horizontal joints in the Tungsten Mountain granodiorite. At least three veins are exposed near the declines, others can be seen cutting the south-facing slope of the mountain. The vein exposed above the west portal strikes N70E, dips 10 degrees NW, and is about 18 inches thick. It is massive, milk-white quartz; a zone on the hanging wall about 10-12 inches thick is only quartz. A footwall zone highly iron-oxide-stained and contains dark bands of tetrahedrite, pyrite, and molybdenite. This footwall band is vuggy; vugs contain clusters of clear quartz crystals with some crystalline calcite growing on the quartz. Some chalcopyrite and sphalerite also occur in the banded portion of the vein. A lense of metasedimentary rocks crops out on the face of the mountain at the eastern portal but it is cut by granodiorite a few feet into the portal.

REMARKS: The western portal extends about 50 feet into the mountain face, the workings served by the eastern decline are more extensive and a large stoped area extends from it.

SAMPLE SITE: 4006
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: April 19, 1989
Attachment:

PROPERTY NAME: Carson Black Lead mine
OTHER NAMES: Chedic mine
MINING DISTRICT: Voltaire
COUNTY: Carson City
MINERAL COMMODITY(IES): graphite, gold, silver
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Carson City
OWNERSHIP: Unknown
SEC: 25 ,T: 15N ,R: 19E
North: 4334940 East: 257757
PRODUCTION: produced graphite, 1903-1940's (?)
HISTORY: Opened in 1903 by Walter Chedic; shipped limited tonnage of graphite to Pacific Graphite Works in Richmond, CA
DEVELOPMENT: Caved adits and shaft.
GEOLOGY: Old, caved adits and shaft adjacent to sizable dumps associated with N50 degrees E veins in granodiorite near contact with dark-gray schist. The veins have a very irregular dip. Quartz from the dumps contained galena, copper oxides and sulfides. According to Archbold (1969), graphite occurs as a lense in schist and gneiss; lense dips to the north.
REMARKS: Near the loading facility at the bottom of the hill were tailings from milled ore.
SAMPLE SITE: 3606
REFERENCES: Overton, 1947, p. 43-44; Archbold, 1969, p. 37-39.
EXAMINER: Jack Quade
DATE VISITED: 4-27-89
Attachment:

PROPERTY NAME: Open-Cut prospect
OTHER NAMES:
MINING DISTRICT: Voltaire
COUNTY: Carson City
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Carson City
OWNERSHIP: Unknown
SEC: 14 ,T: 15N ,R: 19E
North: 4337973 East: 256533
PRODUCTION: Unknown
HISTORY: Unknown but thought to be a part of the Premier mine.
DEVELOPMENT: Open-Cut with prospects and pits above and to the west.
GEOLOGY: Discordant and bedding-plane quartz veins in limestone and schist. The limestone is partially marblized and badly fractured. The veins have epidote, pyrite, copper oxides and sulfides, but there are no visible intrusive rocks.
REMARKS: There is no access to the property unless you walk from the Premier mine site.
SAMPLE SITE: 3603
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-27-89
Attachment:

PROPERTY NAME: Premier mine
OTHER NAMES:
MINING DISTRICT: Voltaire
COUNTY: Carson City
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: Vein and replacement
QUAD SHEET: Carson City
OWNERSHIP: Henry Quill
SEC: 14 ,T: 15N ,R: 19E
North: 4337969 East: 256537
PRODUCTION: Estimated to be $10,000 to $100,000
HISTORY: Unknown
DEVELOPMENT: Several caved adits, loading facility and remnants of a mill.
GEOLOGY: Workings and veins in limey-black, quartz-mica schist, foliation strikes generally north, dips 60 degrees W. Copper-bearing sulfide minerals occur in massive quartz bodies and in schist as replacement ore, but adjacent to the quartz.
REMARKS: Approximately 2 miles west of Carson City but adjacent to private property.
SAMPLE SITE: 3604
REFERENCES: Moore, J.G. Geol & Mineral Deposit, Lyon, Douglas & Ormsby Co., Nevada NBMG Bull 75 1969.
Overton, T.D. Min. Resources, Douglas, Ormsby, Washoe Counties, NBMG Bull. 46, 1947.
EXAMINER: Jack Quade
DATE VISITED: 4-27-89
Attachment:

PROPERTY NAME: Unnamed shaft and adits
OTHER NAMES:
MINING DISTRICT: Voltaire
COUNTY: Carson City
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Carson City
OWNERSHIP: Unknown
SEC: ,T: ,R:
North: 4334940 East: 257757
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adits, shafts and prospects
GEOLOGY: Workings explore a N40 degrees W mineralized quartz vein in a deeply-weathered granite.
REMARKS: Production and milling all look possible from remnants around the caved workings. Walking from Highway 50 was the only way to get to these properties.
SAMPLE SITE: 3607
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-27-89
Attachment:

PROPERTY NAME: Voltaire mine (?)
OTHER NAMES:
MINING DISTRICT: Voltaire
COUNTY: Carson City
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: quartz vein
QUAD SHEET: Carson City
OWNERSHIP: Unknown
SEC: 25 ,T: 15N ,R: 19E
North: 4334761 East: 257515
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adits and prospects
GEOLOGY: N40 degrees W caved adits follow the strike of quartz vein hosted in a deeply-weathered granite. Some of the quartz carried galena, copper and iron sulfides.
REMARKS: Good but sandy road west of highway 395 up Voltaire Canyon. It appears, from tailings, that some of the ore may have been milled on the site.
SAMPLE SITE: 3605
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-27-89
Attachment:

PROPERTY NAME: Section 19 prospect
OTHER NAMES:
MINING DISTRICT: Washington
COUNTY: Lyon
MINERAL COMMODITY(IES): uranium(?)
TYPE OF DEPOSIT: Vein
QUAD SHEET: Ninemile Ranch
OWNERSHIP: Unknown
SEC: 19 ,T: 7N ,R: 27E
North: 4258759 East: 326894
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small adit and dozer cuts.
GEOLOGY: Small adit undercuts an outcrop of granite along a narrow vein with greenish-yellow oxides. Dozer-cuts in the area were directed at the lower portion of the volcanics in what looks like uranium exploration targets. Sample 4219 was taken from the vein in the granite.
REMARKS: Most of the area looks to be a basin filled by volcanics and excavated by erosion.
SAMPLE SITE: 4219
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-16-89
Attachment:

PROPERTY NAME: Section 21 gold prospect
OTHER NAMES:
MINING DISTRICT: Washington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Ninemile Ranch
OWNERSHIP: Unknown
SEC: 21 ,T: 7N ,R: 27E
North: 4258058 East: 328121
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Prospect pits
GEOLOGY: Prospects in altered volcanics follow a small silicified, iron-stained vein adjacent to an andesite intrusive.
REMARKS: Access to the mines along the river is closed due to locked gates, which turned out to be true on both sides of the Walker River. Part of the problem is from ranchers who have leased fishing rights to sports clubs who have closed off the roads.
SAMPLE SITE: 4220
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-16-89
Attachment:

PROPERTY NAME: Section 32 gold prospect
OTHER NAMES:
MINING DISTRICT: Washington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: From massive rib
QUAD SHEET: The Elbow
OWNERSHIP: Unknown
SEC: 32 ,T: 7N ,R: 26E
North: 4254449 East: 316059
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Prospects
GEOLOGY: A massive, 40-60 foot rib strikes N 70 degrees containing crushed iron-stained silica, breccia and lithic fragments. Very limited prospecting along the margins. Numerous slickensides, Sample 4225 taken across the width of the vein.
REMARKS:
SAMPLE SITE: 4225
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-16-89
Attachment:

PROPERTY NAME: Silver King mine
OTHER NAMES:
MINING DISTRICT: Washington
COUNTY: Lyon
MINERAL COMMODITY(IES): silver, gold, lead, copper, antimony
TYPE OF DEPOSIT: Vein
QUAD SHEET: Mitchell Spring
OWNERSHIP: Unknown
SEC: 2 ,T: 7N ,R: 27E
North: 4263133 East: 330694
PRODUCTION: Unknown, but reported to be small.
HISTORY: Discovered in 1867 and worked intermittently thereafter.
DEVELOPMENT: Quarter-mile area honeycombed with adits, stopes, shallow shafts, pits, and prospects.
GEOLOGY: An almost stockworks system of veins and veinlets crops out on a thoroughly-prospected hill of deeply-weathered granite. The narrow veins consist of iron-stained quartz with some unidentified sulfides. Later dozer-cuts appear to have been in search of unexposed veins. All of the workings are shallow, suggesting some secondary enrichment.
REMARKS:
SAMPLE SITE: 4258
REFERENCES: White, 1869, Report of the State Mineralogist of Nevada for the years 1867 & 1868 Carson City.
Brown, 1868, Reports on Mineral Resources of the United States, for 1867 Gov. Printing Office, Washington.
EXAMINER: Jack Quade
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Wedekind mine
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): silver, gold, lead, zinc
TYPE OF DEPOSIT: Epithermal, enargite-gold
QUAD SHEET: Vista
OWNERSHIP:
SEC: 28 ,T: 20N ,R: 20E
North: 4382742 East: 263916
PRODUCTION:
HISTORY:
DEVELOPMENT: At least three shafts with moderate-sized dumps.
GEOLOGY: Several shafts explore a mineralized zone or zones in silicified and argillized tertiary alta andesite. No mineralized structure is obvious at the surface but the shafts lie along a northeast trend. The shafts penetrated to sulfide material below the oxidized zone; pyrite, galena, and sphalerite were noted on the dump. Much of the dump material is yellowish argillized andesite, with a minor component of sulfide-bearing silicified rock. Selenite occurs in the dump material; presumably it is a secondary mineral, although it seems more common in sulfide-bearing areas of the dumps. Nearby silicified ledges exhibit common hydrothermal breccia textures.
REMARKS: Photo 9 is of one of the dumps sampled. Sample 3437 is a select sample, mainly of sulfide-bearing material from 2 adjacent dumps (some sulfides collected for mineralogy). Sample 3438 is similar select material from a dump to the west, and sample 3439 is from a N20W-trending silicified zone with hydrothermal breccia. Sample 3436 is from a strongly limonite-stained hydrothermal breccia on a hilltop about 1 km to the east.
SAMPLE SITE: 3437, 3438, 3439
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-22-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): silver, gold, lead, zinc
TYPE OF DEPOSIT: Fracture coatings
QUAD SHEET: Reno NE
OWNERSHIP:
SEC: 32 ,T: 21N ,R: 20E
North: 4391170 East: 263260
PRODUCTION: None
HISTORY:
DEVELOPMENT: Three long, deep bulldozer trenches cut in granodiorite and moderate-size dumps from the trenching.
GEOLOGY: Two small areas of chrysocolla on fracture surfaces are exposed in a bulldozer cut wall near the road. The mineralized spots are about 50 x 15 cm in area. If any discovery mineralization was present at the surface it has probably been destroyed by the bulldozer work. The oxide copper minerals are not abundant even in the mineralized spots. The wallrock is gray Mesozoic granodiorite. Very rare veinlet quartz was noted, and epidote occurs along the healed fractures but is not specially associated with copper.
REMARKS: Sample 3430 is select fragments of granodiorite from bulldozer cut which have oxide copper minerals on fracture surfaces.
SAMPLE SITE: 3430
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: d3-12-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fracture coatings
QUAD SHEET: Reno
OWNERSHIP:
SEC: 5 ,T: 20N ,R: 20E
North: 4389400 East: 263150
PRODUCTION: None
HISTORY:
DEVELOPMENT: Two small to medium-sized prospect pits. From arrangement of dumps, one may be a caved or filled-in shaft.
GEOLOGY: Oxide copper minerals (malachite and chrysocolla) coat fractures in Mesozoic granodiorite. Iron-oxide minerals also occur, and very sparse remnant pyrite was noted. Rare quartz veinlets, less than 1 cm wide, were noted in dump samples. There is no obvious mineralized structure, although an approximately N-S striking, 45 degree west fault zone with some argillic alteration has some fracture-related copper mineralization near it.
REMARKS: Sample 3429 is select, copper-and iron-stained and coated granodiorite fragments from the dumps.
SAMPLE SITE: 3429
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 3-12-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Epithermal, advanced argillic
QUAD SHEET: Reno
OWNERSHIP:
SEC: 25 ,T: 20N ,R: 19E
North: 4383866 East: 259033
PRODUCTION: Unknown, probably minor or none
HISTORY:
DEVELOPMENT: Dump of moderate size for shaft now concealed by Dandini Boulevard.
GEOLOGY: A shaft, now concealed by a street, explored pyritized, argillized, and silicified tertiary microdiorite. Tertiary alto andesite may also have been encountered. If a mineralized structure is present in the workings or at the shaft collar, it is now covered by the street. An adit 300m to the south adjacent to the US395 freeway is along a N35E, 80Se fault zone in antal andesite(?). There ocherous limonite (from oxidized sulfides) occurs along the fault. The rocks are silicified and argillized there also. The working is too shallow for sulfides to have been encountered. The shaft is at sample 3432, the adit at 3433. The sulfide minerals encountered in the shaft are mainly pyrite, but sparse. Enargite (by x-ray diffraction) was observed at the end of the dump. Minor hydrothermal breccia was noted in rocks at the adit.
The alteration assemblage is advanced argillic. Selenite (from the oxidized zone) is common on the dump as well as pyrite.
REMARKS: Sample 3432 is select pyrite (well crystallized and boytroidal), pyritized wall rock and sparse enargite. Sample 3433 is limonite gossan from adit portal. Photo 3 is of the dump of the shaft.
SAMPLE SITE: 3432, 3433
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-18-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Epithermal, quartz-alunite
QUAD SHEET: Reno
OWNERSHIP:
SEC: 25 ,T: 20N ,R: 19E
North: 4383659 East: 259518
PRODUCTION: None(?)
HISTORY:
DEVELOPMENT: Shallow shaft with small dump
GEOLOGY: The shaft at this property lies at the southwest end of a quartz-alunite ledge in altered rocks of a tertiary, fine-grained, phaneritic-textured stock (Bonham and Bingler, 1973). The ledge appears to have trend of N40E, although it is irregular in shape. The ledge exhibits well exposed hydrothermal breccia textures, limonite staining (including beisgange banding). Dump material was carefully examined for sulfides other than pyrite but none were found. Most of dump is oxidized material; pyritized rock and quartz were apparently encountered only near bottom of shaft. Alunite was noted in one dump sample and is probably common. The sample shaft is one of several prospects and shafts along an east-west spotty trend of silicified rock.
REMARKS: Sample 3435 is of select pyrite-bearing quartz and silicified rock from the dump of shaft. Photo 4 is of dump; photos 5-8 are of hydrothermal breccia.
SAMPLE SITE: 3435
REFERENCES: Bonham and Bingler, 1973, NBMG map, Reno quad.
EXAMINER: L. J. Garside
DATE VISITED: 5-19-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Epithermal, enargite-gold
QUAD SHEET: Reno
OWNERSHIP:
SEC: 24 ,T: 20N ,R: 19E
North: 4384743 East: 259807
PRODUCTION: None(?)
HISTORY:
DEVELOPMENT: Moderate-sized dump of adit (caved at portal). Adit probably is less than 50m.
GEOLOGY: An adit encountered silicified tertiary intermediate-composition intrusive rock (see Bonham and Bingler, 1973; geology of Reno quad). Pyrite is common in dump samples; no other sulfides were identified. Five 1-2mm quartz stockworks were noted in a very few dump samples. The hill above the adit is a silicified and iron-stained breccia. This breccia contains some fragments which itself are breccia, and alteration is variable among fragments; both factors suggest a hydrothermal explosion origin.
REMARKS: Sample 4109 is select silicified and pyritized rock from the dump.
SAMPLE SITE: 4109
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): gold(?)
TYPE OF DEPOSIT: Epithermal
QUAD SHEET: Vista
OWNERSHIP:
SEC: 16 ,T: 20N ,R: 20E
North: 4386233 East: 264678
PRODUCTION:
HISTORY:
DEVELOPMENT: Dump from short, caved adit(?)
GEOLOGY: Tertiary andesite is argillized and silicified at a small prospect. Several other nearby prospects in Sec. 16 and the north part of 21 are believed to be similar.
REMARKS: Sample 4111 is grab from dump if argillized and silicified andesite.
SAMPLE SITE: 4111
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fracture coatings
QUAD SHEET: Reno NE
OWNERSHIP:
SEC: 32 ,T: 21N ,R: 20E
North: 4391170 East: 263260
PRODUCTION: None
HISTORY:
DEVELOPMENT: Three long, deep bulldozer trenches cut in granodiorite and moderate-size dumps from the trenching.
GEOLOGY: Two small areas of chrysocolla on fracture surfaces are exposed in a bulldozer cut wall near the road. The mineralized spots are about 50 x 15cm in area. If any discovery mineralization was present at the surface it has probably been destroyed by the bulldozer work. The oxide copper minerals are not abundant even in the mineralized spots. The wallrock is gray Mesozoic granodiorite. Very rare veinlet quartz was noted, and epidote occurs along healed fractures but is not specially associated with copper.
REMARKS: Sample 3230 is select fragments of granodiorite from bulldozer cut which have oxide copper minerals on fracture surfaces.
SAMPLE SITE: 3230
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 3-12-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Eipthermal
QUAD SHEET: Reno
OWNERSHIP:
SEC: ,T: ,R:
North: 4384620 East: 263130
PRODUCTION: None
HISTORY:
DEVELOPMENT: A 1-2m deep shaft.
GEOLOGY: A very shallow shaft was sunk along a N-S, 90 degree hydrothermal breccia zone 1-2m wide in a wallrock of hydrothermally altered but less brecciated tertiary andesite.
REMARKS: Photo 10 is of the shaft collar and breccia zone. Sample 3440 is a grab across the 1-2m breccia zone.
SAMPLE SITE: 3440
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-22-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: epithermal, quartz-alunite
QUAD SHEET: Reno
OWNERSHIP:
SEC: 25 ,T: 20N ,R: 19E
North: 4383659 East: 259518
PRODUCTION: None(?)
HISTORY:
DEVELOPMENT: Shallow shaft with small dump
GEOLOGY: The shaft at this property lies at the southwest end of a quartz-alunite ledge in altered rocks of a tertiary, fine-grained, phaneritic-textured stock (Bonham and Bingler, 1973). The ledge appears tohave trend of N40E, although it is irregular in shape. The ledge exhibits well exposed hydrothermal breccia textures, limonitic staining (including beisgange banding). Dump material was carefully examined for sulfides and other than pyrite but none were found. Most of dump is oxidized material; pyritized rock and quartz were apparently encountered only near bottom of shaft. Alunite was noted in one dump sample and is probably common. The sample shaft is one of several prospects and shafts along an east-west spotty trend of silicified rock.
REMARKS: Sample 3435 is of select pyrite-bearing quartz and silicified rock from the dump of shaft. Photo 4 is of dump; photos 5-8 are of hydrothermal breccia.
SAMPLE SITE: 3435
REFERENCES: Bonham and Bingler, 1973, NBMG mpa, Reno quad.
EXAMINER: L. J. Garside
DATE VISITED: 5-19-89
Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Wedekind
COUNTY: Washoe
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Epithermal, advanced argillic
QUAD SHEET: Reno
OWNERSHIP:
SEC: 25 ,T: 20N ,R: 19E
North: 4384096 East: 258951
PRODUCTION: Unknown, probably minor or none
HISTORY:
DEVELOPMENT: Dump of moderate size for shaft now concealed by Dandini Boulevard.
GEOLOGY: As shaft, now concealed by a street, explored pyritized, argillized and silicified Tertiary microdiorite, Tertiary Alta Andesite may also have been encountered. If a mineralized structure is present in the workings or at the shaft collar, it is now covered by the street. An adit 300m to the south, adjacent to the US395 freeway is along a N35E, 80 degree SE fault zone in Alta Andesite(?) There ocherous limonite (from oxidizes sulfides) occurs along the fault. The rocks are silicified and argillized there also. The working is too shallow for sulfides to have been encountered. The shaft is at sample 3432, the adit at 3433. The sulfide minerals encountered in the shaft are mainly pyrite, but sparse. Enargite (by x-ray diffraction) was observed at the end of the dump. Minor hydrothermal breccia was noted in rocks at the adit.
The alteration assemblage is advanced argillic selenite (from the oxidized zone) is common on the dump as well as pyrite.
REMARKS: Sample 3432 is select pyrite (well crystallized and boytroidal); pyritized wall rock, and sparse enargite. Sample 3433 is limonite gossan from adit portal. Photo 3 is of the dump of the shaft.
SAMPLE SITE: 3432, 3433
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 5-18-89
Attachment:

PROPERTY NAME: Boulder Hill claims (north)
OTHER NAMES:
MINING DISTRICT: Wellington
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Desert Creek Ranch
OWNERSHIP: Basin - Range Co., P.O. Box 993, Yerington, NV
SEC: 30 ,T: 10N ,R: 24E
North: 4286325 East: 296680
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Caved adit
GEOLOGY: A small caved prospect adit in a light-tan portion of limestone of Triassic age. The objective appears to be minor shears filled with silica and gouge along bedding planes. Some of the silica contains wispy streaks of fine-grained pyrite.
REMARKS:
SAMPLE SITE: 4279
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Boulder Hill claims (south)
OTHER NAMES:
MINING DISTRICT: Wellington
COUNTY: Douglas
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Desert Creek Ranch
OWNERSHIP: Unknown
SEC: 30 ,T: 10N ,R: 24E
North: 4285951 East: 296498
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit
GEOLOGY: A caved adit north of the Boulder Hill mine has, unlike any other workings, a dump comprised almost entirely of granite with minor tactite and visible scheelite. There is no granite at the surface; the adit was driven in limestone.
REMARKS:
SAMPLE SITE: 4280
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Boulder Hill mine
OTHER NAMES:
MINING DISTRICT: Wellington
COUNTY: Douglas
MINERAL COMMODITY(IES): silver, fluorite, tungsten
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Desert Creek Ranch
OWNERSHIP: Saga Exploration Co., Box 6479, Reno, NV 89513
SEC: 30 ,T: 10N ,R: 24E
North: 4285788 East: 296492
PRODUCTION: Small amount of silver production
HISTORY: Unknown
DEVELOPMENT: Shaft and adit with extensive road building and dozing above and to the southwest of the mine. Several old building still standing at the mine.
GEOLOGY: The shaft was sunk on the contact between limestone and shaley to siliceous sedimentary rocks both weakly metamorphosed and reported to the Triassic and Jurassic in age. The adit was driven in the limestone above the contact. The meta-sediments have been intruded by granodiorite and faulted against a series of Tertiary volcanics further up the hill and to the west. The mine is best known because of two large fluorite-bearing jasperoid masses that crop out on the slope above the mine about 1200 feet southwest and 2,200 feet to the south. The jasperoid masses cap the lower units.
REMARKS: Sample 4281, from the dumps associated with the shaft and adit, consisted of crushed limestone and silicified gouge.
SAMPLE SITE: 4281
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75
EXAMINER: Jack Quade
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Imperial claims
OTHER NAMES: Section 12 adit and prospects
MINING DISTRICT: Wellington
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Oreana Peak
OWNERSHIP: Unknown
SEC: 12 ,T: 10N ,R: 22E
North: 4291773 East: 286087
PRODUCTION: Unknown
HISTORY: Unknown, but at least two phases; older workings consist of shafts, adits and prospects. Later activities are extensive dozing.
DEVELOPMENT: Shafts, adits, pits, trenches and dozing.
GEOLOGY: An old and partially-caved adit was driven on the N 20 degrees E strike of a 2-foot-wide vein in meta-volcanics. The vein consists of quartz breccia with a matrix of dark-gray, fine-grained pyrite and other sulfides. The host is altered to a white punk along the contact with the vein; alteration extends into the host rock several feet on each side.
REMARKS: Sample 4404 was taken from the dump associated with the adit and from a pit in front of the adit. Many of the other workings have similar dumps although most are caved. There are more workings in this area than are shown on the maps.
SAMPLE SITE: 4404
REFERENCES: Hill, 1915, p. 60-61.
EXAMINER: Jack Quade
DATE VISITED: 7-10-89
Attachment:

PROPERTY NAME: Section 1 adit
OTHER NAMES:
MINING DISTRICT: Wellington
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Oreana Peak
OWNERSHIP: Unknown
SEC: 1 ,T: 10N ,R: 22E
North: 4291990 East: 285954
PRODUCTION: Unknown
HISTORY: Workings are old, no records
DEVELOPMENT: Adit and numerous prospects in area.
GEOLOGY: South-trending adit follows the strike of a vein hosted in meta-volcanics and underlain by granite. The host rocks are highly altered near structures.
REMARKS: Sample 4403 was chipped from the exposed vein in the adit.
SAMPLE SITE: 4403
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-10-89
Attachment:

PROPERTY NAME: Section 19 workings
OTHER NAMES:
MINING DISTRICT: Wellington
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Desert Creek Ranch
OWNERSHIP: Unknown
SEC: 19 ,T: 10N ,R: 24E
North: 4287541 East: 296834
PRODUCTION: Unknown
HISTORY: Unknown, but very old.
DEVELOPMENT: Five shafts and adits

GEOLOGY: A line of inclined shafts follow the N 20 degrees strike of a fissure vein in meta-limestone of Jurassic-Triassic age. The inclines were sunk on the 45 degrees-60 degrees SW dip slope exposing 1- to 2-foot-thick, iron-stained gouge zones that parallel the bedding plane of the limestone.

REMARKS: Most of the workings are from 30 to 50 feet deep and were all dug by hand. There are no roads to the workings. Sample 4278 was taken from exposed portions of the vein inside the inclines.

SAMPLE SITE: 4278
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Section 31 gold prospect
OTHER NAMES:
MINING DISTRICT: Wellington
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Desert Creek Ranch
OWNERSHIP: Saga Exploration Co., Box 6479, Reno, NV 89513
SEC: 31 ,T: 10N ,R: 24E
North: 4283780 East: 296483
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit and prospects
GEOLOGY: A caved adit follows the west strike of a flat-lying, 6-foot-thick, iron-stained, silicified vein in light-gray meta-volcanics.
REMARKS: Sample 4282 was chipped from the exposed vein.
SAMPLE SITE: 4282
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Sun #1 claim
OTHER NAMES: High Jacks prospect, High Jinks prospect
MINING DISTRICT: Wellington
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, copper, tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Oreana Peak
OWNERSHIP: Roger Gash, 1045 Crown Dr., Reno, NV 89503
SEC: 6 ,T: 10N ,R: 23E
North: 4292411 East: 286810
PRODUCTION: Unknown
HISTORY: The older inclines look to have been an earlier exploration for precious metals, while the new dozer-cuts are for tungsten.
DEVELOPMENT: Two inclines, dozer-cuts, trenches and pits
GEOLOGY: Two inclines were sunk on a 4-inch vein striking N 20 W and follow the 50 degrees SW dip slope. These workings are in a granite of Cretaceous age, but near meta-sediments of Triassic age. The dozer cuts have explored the limited contact zone mining some skarn. This is also true for other local prospecting. There was visible scheelite in portions of the contact zone.
REMARKS:
SAMPLE SITE: 4402
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-10-89
Attachment:

PROPERTY NAME: Sun #4 & #5 claims
OTHER NAMES:
MINING DISTRICT: Wellington
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: vein
QUAD SHEET: Oreana Peak
OWNERSHIP: Roger Gash, 1045 Crown Dr., Reno, NV 89503
SEC: 6 ,T: 10N ,R: 23E
North: 4292112 East: 287025
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Prospect pits
GEOLOGY: A line of prospect pits and shallow trenches were dug along and across the N 25 degrees W strike of shallow and narrow fissure fillings in granite. Sample 4401 was taken from the silicified fracture fillings.
REMARKS:
SAMPLE SITE: 4401
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-10-89
Attachment:

PROPERTY NAME: Sample site 4310
OTHER NAMES:
MINING DISTRICT: Westgate
COUNTY: Churchill
MINERAL COMMODITY(IES): lead, zinc (?)
TYPE OF DEPOSIT: replacement
QUAD SHEET: West Gate
OWNERSHIP:
SEC: 29 ,T: 17N ,R: 35E
North: 4351594 East: 408128
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Adit into hillside, open stopes along hill.
GEOLOGY: Workings follow irregular gossan zone in gray, phyllitic limestone; diorite contact is upslope 200 or so feet above. Diorite has epidote on fractures, is chloritized. Sugary, silified aplitic dike cuts mined area; dike is white with quartz veinlets and streaks along fractures. Phyllitic rocks strike N30E, dip 60NW, are highly contorted in outcrop across canyon to the north. The dike is 2 to 3 feet thick where exposed, it rolls and crosscuts bedding. Other workings to the east are along limestone/phyllite-diorite contact but outcrops of the light-buff dike rock are associated with each working. Irregular gossan zone exposed in the open stope strikes N80W, is vertical and about 2 to 3 feet wide. The dike is beneath the outcrop, dike may be part of main intrusive mass (?). Clots of bone-like, white, crystalline mineral has formed in limestone/phyllite along bedding and associated with the gossan.
REMARKS:
SAMPLE SITE: 4310
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 19, 1989
Attachment:

PROPERTY NAME: Sample site 4311
OTHER NAMES:
MINING DISTRICT: Westgate
COUNTY: Churchill
MINERAL COMMODITY(IES): lead, zinc (?)
TYPE OF DEPOSIT: replacement
QUAD SHEET: West Gate
OWNERSHIP:
SEC: 29 ,T: 17N ,R: 35E
North: 4351680 East: 407890
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Inclined shaft and estimated 100 feet or so of underground workings
GEOLOGY: Workings follow N60W-striking, near-vertical fault zone in phyllitic limestone; diorite contact may be encountered in lower workings, gossan may have formed in endoskarn; granular gossan found on shaft dump.
REMARKS:
SAMPLE SITE: 4311
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 19, 1989
Attachment:

PROPERTY NAME: Sample site 4312
OTHER NAMES:
MINING DISTRICT: Westgate
COUNTY: Churchill
MINERAL COMMODITY(IES): unknown
TYPE OF DEPOSIT: replacement
QUAD SHEET: West Gate
OWNERSHIP:
SEC: 32 ,T: 17N ,R: 35E
North: 4349955 East: 408406
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Several shallow shafts, cuts, drill holes
GEOLOGY: Pendant of limestone/marble in contact with chloritized, prophylitized diorite; contact trends EW; diorite is to the north, band of white marble and gray marbleized limestone crop out lower on slope. No apparent metallic mineralization.
REMARKS: Drilling possibly done in search of magnesite (?)
SAMPLE SITE: 4312
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 19, 1989
Attachment:

PROPERTY NAME: Sample site 4313
OTHER NAMES:
MINING DISTRICT: Westgate
COUNTY: Churchill
MINERAL COMMODITY(IES): tungsten(?)
TYPE OF DEPOSIT: skarn
QUAD SHEET: West Gate
OWNERSHIP:
SEC: 19 ,T: 17N ,R: 35E
North: 4353546 East: 406786
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Adit and short cross-cuts; one about 40-foot-deep shaft
GEOLOGY: Shaft was sunk in marble, but material on dump indicates that skarn was found at its bottom. Adit follows N30E, vertical fault; second fault, N10W, also vertical, exposed at adit portal. Bedding in marble N60E, 40 degrees SE, epidote skarn formed as lense along bedding.
REMARKS: Shaft sunk to intersect skarn at depth
SAMPLE SITE: 4313
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 19, 1989
Attachment:

PROPERTY NAME: Red Bird mine
OTHER NAMES:
MINING DISTRICT: Wild Horse
COUNTY: Churchill
MINERAL COMMODITY(IES): hot-spring
TYPE OF DEPOSIT: bedded
QUAD SHEET: Shoshone Meadows
OWNERSHIP:
SEC: 24 ,T: 23N ,R: 38E
North: 4410362 East: 443345
PRODUCTION:
HISTORY:
DEVELOPMENT: Several cuts and trenches
GEOLOGY: Mercury mineralization occurs in altered volcanic ash at the base of a thick rhyolitic tuff; the ash contains blocks and nodules of vitrophyre and rhyolite "bombs" up to 8 inches in diameter. These bombs have been opalized and have specks and coatings of cinnabar within them. Cinnabar paint and some disseminated cinnabar also occur in the altered volcanic ash. To the west of the trenched area, the flows are in contact with grey, fossiliferous limstone. The limestone is cut by calcite veining and has lenses of hematitic material along bedding
REMARKS: The area has been staked and explored within the past 2-3 years, some trenching has been done on the hematite lenses in the limestone
SAMPLE SITE: 3498
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: April 18, 1989
Attachment:

PROPERTY NAME: Beita claims
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): tungsten, copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Mount Etna
OWNERSHIP: Unknown
SEC: 1 ,T: 9N ,R: 24E
North: 4282819 East: 304469
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft, trenching and prospects
GEOLOGY: A line of workings follow a north-trending, irregular contact between limestone of Triassic age and granite of Cretaceous age. Lots of prospecting by hand and by dozer but very small tactite zone. In spite of its small size, the material showed good scheelite values under a U.V. lamp. The prospect was probably limited by its tonnage.
REMARKS: No roads the last mile.
SAMPLE SITE: 4296
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-10-89
Attachment:

PROPERTY NAME: Cambridge mine
OTHER NAMES: Oxford claims
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Pine Grove Spring
OWNERSHIP: Russell Henderson, 2236 N 17th St., Grand Junction, CO 81501
SEC: 31 ,T: 10N ,R: 27E
2236 N 17th Street
Grand Junction
North: 4283948 East: 325305
PRODUCTION: Reported to be small, but actual records are not available.
HISTORY: Early history dates from the 1860's but there are no records before 1936, when it was reopened and had some small production.
DEVELOPMENT: The large vertical shaft is said to have 300 and 400 levels.
GEOLOGY: The very large incline is on a north-trending, west-dipping shear zone in granodiorite of Cretaceous age with prospects to the north and south along the strike.
Sample 4209 was taken from what appeared to be a small stockpile of quartz and quartz breccia to the east of the very large main dump. The vein materials look to have silver sulfides associated with the matrix of the breccia.
REMARKS: It later turned out that Mr. Henderson had blanked the area with claims using old english names.
SAMPLE SITE: 4209
REFERENCES: Stoddard and Carpentar, 1950, Mineral Resources of Storey and Lyon Counties, Nevada; NBMG Bull 49.
Moore, 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 6-14-89
Attachment:

PROPERTY NAME: Horse Whim shaft
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Wilson Canyon
OWNERSHIP:
SEC: 27 ,T: 11N ,R: 25E
North: 4295483 East: 310730
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Vertical shaft, est. about 100-feet deep, remains of horse whim at collar; cut on structure southwest of shaft; short adit on another structure a short distance upslope from the shaft.
GEOLOGY: Structure cannot be seen at collar of the shaft but a N10E-striking, vertical shear zone is exposed in the cut south of the shaft, may be the same structure followed by the shaft workings. The shear zone is in altered granodiorite, is 5- to 10-feet wide, central "vein" zone is composed of granodiorite fragments, clay, and fragments of altered, biotite andesite (?). The short adit upslope from the cut is driven S60W along a 75-degree NW-dipping shear zone in granodiorite, no minerals other than iron oxides seen in the adit portal. Vein material on the main shaft dump is composed of white vein quartz containing clots of chlorite, euhedral pyrite, fine-grained galena, and traces of chalcopyrite. Some crystalline calcite is present.
The granodiorite in the vicinity of the workings is sheeted and brecciated along generally EW-trending structures. Fractures are coated with buff-colored carbonate coatings; fluted surfaces on this carbonate material resembles the effects of gas-streaming seen at hot-springs related deposits such as Hasbrouck Mountain near Tonopah. An area of alteration and discoloration in the granodiorite extends along the front of the range from this property to south of the prospect at sample site 4369.
REMARKS: A thick sequence of flow-bedded volcanic flows overlies the granodiorite exposed along the eastern front of the range; these flows are shown on the Lyon Co. geologic map to be in flow contact with the underlying granitic rocks. Brecciation in the granitic rocks and related alteration suggest that the area could be located on the margin of a large volcanic center or of a caldera
SAMPLE SITE: 4371
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: 10/13/89
Attachment:

PROPERTY NAME: Horseshoe mine
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: vein
QUAD SHEET: Pine Grove Spring
OWNERSHIP: W. E. Narkaus, Placerville, California (1967)
SEC: 6 ,T: 9N ,R: 27E
North: 4281500 East: 325400
PRODUCTION: none
HISTORY:
DEVELOPMENT: adit, several trenches
GEOLOGY: The workings of the Horseshoe mine explore a 2- to 3-foot wide, vuggy quartz vein formed along a northeast-trending fault zone in volcanic flow rocks. The vein dips 30-degrees to the southeast and has been exposed for about 50 feet along strike and about 20 feet down dip. Mineralization occurs along the major fault zone and also along a series of narrow, north-trending quartz veins which cut granodiorite north of the mine area. All veins are oxidized and presumably carried some enriched gold values near surface. The main fault zone widens to the east and surface trenching has exposed a crushed, bleached zone 500- to 600-feet wide which shows minor iron- and copper-oxide staining; no vein is exposed in this area.
REMARKS:
SAMPLE SITE:
REFERENCES: Tingley, unpublished report, 1967
EXAMINER: J.V. Tingley
DATE VISITED: May 29, 1967
Attachment:

PROPERTY NAME: Jack Pot mine
OTHER NAMES: Jack Rabbit mine
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): silver, lead, zinc
TYPE OF DEPOSIT: Fissure vein, replacement
QUAD SHEET: Desert Creek Ranch
OWNERSHIP: Unknown
SEC: 19 ,T: 10N ,R: 24E
North: 4287245 East: 302851
PRODUCTION: Small, unrecorded, production
HISTORY: Unknown
DEVELOPMENT: Adit, shaft and prospects
GEOLOGY: The large lower adit exposes a N 20 degrees E-striking, 65 degrees SE-dipping 5-foot shear in meta-volcanic rocks. The vein and replacement ore occur within and along the shear. The upper shaft joined by the large adit that follows the strike of the vein is about 100 feet above the adit entrance. The vein contains visible (sphalerite, galena) pyrite and possible silver sulfides as replacement ore.
REMARKS:
SAMPLE SITE: 4277
REFERENCES: Moore, 1969, Geology and Mineral Deposits of Lyon, Douglas, and Ormsby Counties, Nevada; NBMG Bull 75
Stoddard and Carpenter, 1950, Mineral Resources of Storey and Lyon Counties, Nevada NBMG Bull 49.
EXAMINER: Jack Quade
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: MG #2 claim
OTHER NAMES: Price Lode claims
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Pine Grove Spring
OWNERSHIP: Russel Henderson, 2236 N 17th St., Grand Junction, CO 81501
SEC: 25 ,T: 10N ,R: 26E
North: 4285343 East: 324153
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: An incline and prospects
GEOLOGY: Highly crushed quartz vein system, up to two feet in thickness, strikes N 10 degrees W, and is hosted in granodiorite of Cretaceous age. Much of the vein is a punky white powder with only minor amounts of silicified gouge and quartz. The incline was sunk on the 75-80 degrees SW dipping vein system. Sample 4207 from the dump. About 2000 feet further south are three shafts that appear to be on the same N 10 degrees W vein. Again, the vein is badly crushed but in this locality it has a well developed quartz component.
REMARKS: These are very old workings, lots of square nails but no surviving timber. Sample 4208 was taken from portions of the open-stopes and from dumps. The three shafts were covered under the Price Lode claims but were staked by the same Russel Henderson.
SAMPLE SITE: 4207, 4208
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-14-89
Attachment:

PROPERTY NAME: North Star claims
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Pine Grove Spring
OWNERSHIP: Russell Henderson, 2236 N 17th St., Grand Junction, CO 81501
SEC: ,T: 10N ,R: 27E
North: 4284946 East: 325126
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Six shafts and 4 prospects.

GEOLOGY: Six shafts on the N 10 degrees - 15 degrees strike of a fissure vein in granodiorite. Four of the shafts appear to be connected at depth. Post-depositional movement is evident from slickensides on vein material. The vein is up to 3 feet in width and dips at a 75 degrees W angle. Open stopes connect some of the workings and most are shallow. The northern-most shaft was sunk on a fault contact between alaskite and granodiorite.

REMARKS: These workings may be on a western offset to the vein system at the Cambridge mine. Sample 4210 from dumps and stopes looks very much like the vein at the Cambridge.

SAMPLE SITE: 4210
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-15-89
Attachment:

PROPERTY NAME: Rockland mine
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Pine Grove Spring
OWNERSHIP: Unknown
SEC: ,T: ,R:
North: 4279403 East: 317794
PRODUCTION: Produced 2,747 tons of ore from 1870 to 1879 with a gross value of $74,503; 42,579 tons from 1915 to 1917 with a gross value of $263,071 and another $43,037 from 1933 to 1934.
HISTORY: Discovered in the late 1860's and worked intermittently since currently being reassessed by a Canadian Group.
DEVELOPMENT: Tunnels and later dozing, remnants of a huge mill on east facing hill...ore stockpiled there and at the bottom of the hill.
GEOLOGY: The major ore occurrence was described in the following: ore occurs in a vein entirely in granodiorite at its north end, then following and passing into a rhyolite dike with the dike finally acting as a footwall. The vein averages 3 feet in width, and is a filled fissure with some replacement of the walls by ore. From the upper southern adit, the ore consists of breccia with silica and minor pyrite as well as quartz and possible silver sulfides (Sample 4217). Sample 4218 was from workings near the mill site and stockpiles, consisting of rhyolite breccia flooded with silica and fine-grained pyrite and silver sulfides. Much of the ore from the area of rhyolite is almost chertified it is so hard.
REMARKS: Long road from the valley that has been badly washed by recent storms.
SAMPLE SITE: 4217, 4218
REFERENCES: Stoddard & Carpentar, 1950, Mineral Resources of Storey and Lyon Counties, Nevada; NBMG Bull 49.
Hill, 1915, Some Mining Districts in Northeastern California and Northwestern Nevada, USGS Bull 594.
EXAMINER: Jack Quade
DATE VISITED: 6-16-89
Attachment:

PROPERTY NAME: Section 13 shafts and adits
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein and joints(?)
QUAD SHEET: Pine Grove Spring
OWNERSHIP: Unknown
SEC: 13 ,T: 10N ,R: 26E
North: 4288267 East: 324152
PRODUCTION: Unknown
HISTORY: Much of the early history of the camp has been lost and the later activity, in 1936, concerns the Cambridge Mine to the south.
DEVELOPMENT: Three shafts, one adit, and about 20 prospects.
GEOLOGY: Workings cover a half-mile area exploring veins formed in shear zones and joints in granite. The major work was focused on two subparallel shear zones striking N 35 degrees E and N 45 degrees E respectively. The veins within the structures ranged up to 2 feet in thickness and consisted of vuggy, limonite-stained quartz stringers and punky white crushed silica and silica gouge. Several offsetting subsurface workings were either stoped to the surface or caved or both. One such working near the major shaft appears to be the junction of another almost perpendicular shear. Sample 4206 was taken from exposed portions of this system.
REMARKS:
SAMPLE SITE: 4206
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-14-89
Attachment:

PROPERTY NAME: Section 31 prospect
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Mount Etna
OWNERSHIP: Wilson family of Yerington
SEC: 31 ,T: 10N ,R: 26E
North: 4283456 East: 314949
PRODUCTION: Part of the total production of the camp reported to be $220,368
HISTORY: Discovered in 1866 and worked during the period 1870 to 1899, new and active work going on now.
DEVELOPMENT: Area of new exploration and dozing above the old major workings of the camp.
GEOLOGY: A dozer-cut exposed a shear and area of intense alteration with pyritic replacement ore along the margin of a dark granodiorite. Shear zone with quartz and quartz stringers.
REMARKS:
SAMPLE SITE: 4216
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-15-89
Attachment:

PROPERTY NAME: Section 32 adit
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Pine Grove Spring
OWNERSHIP: Unknown
SEC: 32 ,T: 10N ,R: 26E
North: 4283174 East: 316579
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: An adit and prospect
GEOLOGY: Adit was driven on a shear in dark granodiorite or diorite near the contact with a lighter monzonite. Vein material consisted of breccia and replacement ore containing pyrite.
REMARKS: Old workings east of the Wheeler mine.
SAMPLE SITE: 4212
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-15-89
Attachment:

PROPERTY NAME: Section line shaft
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Wilson Canyon
OWNERSHIP:
SEC: 33,34 ,T: 11N ,R: 25E
North: 4294073 East: 310591
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Two shallow shafts, inclined to follow vein; upper (southern) decline leads into stoped area; lower (northern) workings are about 50 feet NE on strike, consist of shallow incline and short crosscut into structure.
GEOLOGY: N10E-striking, 45-degree NW-dipping quartz vein in shear zone in granodiorite; vein is 1-foot to 18-inches thick, is sheeted and stained with red-brown hematite coatings, especially on both hanging wall and footwall. Granodiorite in the hanging wall is sheared and is green from chloritic alteration for about 15 feet away from the central vein. Vein contains clots of fine-grained galena, pyrite, and minor chalcopyrite and possibly covellite; massive, crystalline calcite is found on the dump and must occur along the structure along with quartz.
REMARKS: Hill slope below the workings is littered with fragments of vein material, must be other veins.
SAMPLE SITE: 4369
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: 10/13/89
Attachment:

PROPERTY NAME: Smith Valley mine
OTHER NAMES: Telluride claims
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): silver, lead, zinc
TYPE OF DEPOSIT: Vein
QUAD SHEET: Desert Creek Ranch
OWNERSHIP: Unknown
SEC: 23 ,T: 10N ,R: 24E
North: 4287560 East: 303044
PRODUCTION: Small unrecorded production
HISTORY: Unknown
DEVELOPMENT: Big shaft
GEOLOGY: Large shaft sunk on a 6-foot, highly silicified, fissure vein in meta-sediments (limestone) and probably underlain by granite. The meta-sediments are thought to be Triassic-Jurassic and the granite of Cretaceous age. The main mineralization appears to have been replacement ore.
REMARKS: These are fairly large workings with a well developed camp, part of which served the Jack Rabbit Mine just down the hill.
SAMPLE SITE: 4276
REFERENCES: Moore, 1969, Geology and Mineral Deposits of Lyon, Douglas, and Ormsby Counties, Nevada; NBMG Bull 75
EXAMINER: Jack Quade
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Sugar Loaf workings
OTHER NAMES: Sugar Load mine
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein and replacement
QUAD SHEET: Pine Grove Spring
OWNERSHIP: Wilson family of Yerington
SEC: 31 ,T: 10N ,R: 26E
North: 4283261 East: 315517
PRODUCTION: Unknown, probably counted with Wilson mine production.
HISTORY: From the earliest days of the camp, which is 1866.
DEVELOPMENT: Several adits
GEOLOGY: Large adit driven below the rhyolite vitrophere, along a shear in crushed granodiorite with both oxides and some replacement type ore. Minor pyrite occurs with both types.
REMARKS: Mr. Cavanaugh thought this would be representative of the oxide type values.
SAMPLE SITE: 4215
REFERENCES: Mr. Cavanaugh, Wellington, Nevada (owner of Crown Development and Mining Co.).
EXAMINER: Jack Quade
DATE VISITED: 6-15-89
Attachment:

PROPERTY NAME: Telluride claims
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): silver, lead, zinc
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Desert Creek Ranch
OWNERSHIP: Unknown
SEC: 23 ,T: 10N ,R: 24E
North: 4287365 East: 303395
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: An adit and prospects
GEOLOGY: A cross-cut adit bears S 10 degrees W in meta-sediments near a contact with granite. Vein material on the dump ranged from quartz to replacement ore with copper, lead and zinc minerals in evidence.
REMARKS: Access to these workings is best achieved from the south.
SAMPLE SITE: 4275
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-30-89
Attachment:

PROPERTY NAME: Wheeler mine
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Pine Grove Spring
OWNERSHIP: Tech Resources of Canada (lessors)
SEC: 6 ,T: 9N ,R: 26E
North: 4282709 East: 316248

PRODUCTION: Reported to have produced 6,038 tons of ore with a gross value of 165,911 between 1873 and 1878.

HISTORY: Discovered in 1866 and worked intermittently since. Some recent work by Tech Resources has included underground activities.

DEVELOPMENT: May be five adits, much dozing and trenching.

GEOLOGY: All of the workings in this part of the district are in sheared granodiorite cut by dikes of granite porphyry and capped by Tertiary rhyolite. The basal vitrophere of the rhyolite was used as a marker horizon by the early miners as the upward limit to the mineralization. The large dumps associated with a caved adit were driven on dark-gray diorite adjacent to a granodiorite. Some of the vein material is a pyrite-rich replacement ore along a shear in the diorite. The intensely-crushed vein systems also contains quartz and quartz stringers. The pyrite was said to be an indicator of good gold values.

REMARKS: The information on the ores at the mine was provided by Mr. W. J. Cavanaugh, presently leasing and running a milling operation at the Wilson Mine.

SAMPLE SITE: 4211

REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby, Counties, Nevada; NBMG Bull 75.
Hill, 1912, Mining Districts of the Western United States, USGS Bull 507.

EXAMINER: Jack Quade
DATE VISITED: 6-14-89
Attachment:

PROPERTY NAME: Wilson mine
OTHER NAMES:
MINING DISTRICT: Wilson
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein and replacement
QUAD SHEET: Pine Grove Spring
OWNERSHIP: Wilson family of Yerington
SEC: 31 ,T: 10N ,R: 26E
North: 4283194 East: 316035
PRODUCTION: Reported to be $220,368 between 1870 and 1899 from 7,623 tons of ore.
HISTORY: Discovered in 1866 by a man named Wilson and has been in the same family ever since. Currently being leased by J.W. Cavanaugh of Wellington who has just installed a small pilot heap leach to treat dumps of oxides and sulfide ores.
DEVELOPMENT: About 3 miles of underground workings, many interconnected, from 5 shafts and a half dozen adits, some new dozing and trenching.
GEOLOGY: According to Mr. Cavanaugh, there are two distinct phases of granite with the mineralization associated with a darker, dioritic phase, along shears and with the best ore in conjunction pyrite. This ore looks like replacement bodies, always dark, commonly crushed and said to have occurred as lenses and stringers. Sample 4213 was from a stockpile of the sulfide-type ore with pyrite in a dark dioritic phase. Sample 4214 was from oxide type ores, highly altered but with less pyrite. Both ore samples were from the main shear zone.
REMARKS: Mr. Cavanaugh was using these two ores in his pilot heap leach operation.
SAMPLE SITE: 4213, 4214
REFERENCES: Moore, J.G., 1969 Geology and Mineral Deposits of Douglas, Lyon and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 6-15-89
Attachment:

PROPERTY NAME: Hercules adit
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Unknown
SEC: 32 ,T: 19N ,R: 35E
North: 4368820 East: 408780
PRODUCTION: Unknown
HISTORY: Probably 1906-1908 vintage
DEVELOPMENT: A line of small adits near the town site of Hercules
GEOLOGY: Sample 3805 was collected from a N15 degrees W-striking, 30 degrees SW-dipping quartz vein exposed in a 150-foot long adit. The sample consisted of vein quartz and quartz breccia containing visible silver sulfides, possibly some free gold. Assays ran 1500 ppm silver and 11 ppm gold.
REMARKS:
SAMPLE SITE: 3805
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-8-86
Attachment:

PROPERTY NAME: Jack Pot mine
OTHER NAMES: Atlas Wonder mine
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP:
SEC: 32 ,T: 19N ,R: 35E
North: 4369000 East: 400900
PRODUCTION: About $40,000 from 4 thousand tons
HISTORY: The first discovery in the district in April 1906 and the first property to produce.
DEVELOPMENT: The mine is opened to a depth of 960 feet through the main shaft and has about 6000 feet of workings, more than half of which are drifts.
GEOLOGY: Burgess (1914), reported the mine to be hosted in latite from the surface to the bottom of the shaft, and that the workings were in good shape. The observations were made as part of an evaluation of the mine made by Burgess for the Atlas Wonder Mining Company in 1914. (The following is summarized from Burgess's report): "...three veins come together at depth...veins narrow without improvement at the junctions...best ore has been stoped out...present showings are very weak...no assured ore blocked out...quartz veins practically pinched out on 700 level." His recommendations were for further exploration on the 100, 200, and 300 levels with some additional work to the west, no work at depth. The mine appears to have been a major exploration effort on what would be considered a northern extension of the Wonder vein system. The four veins in the Jack Pot workings were NNW-striking, NE-dipping. Sample 3807 was taken from the ore-bin and selected from the dump and consisted of quartz with possible adularia and specks of silver sulfides.
REMARKS:
SAMPLE SITE: 3807
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-8-86
Attachment:

PROPERTY NAME: Purple Star Prospect
OTHER NAMES: Treasure Hill claim #1416
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): fluorspar
TYPE OF DEPOSIT: Quartz veins with sparse fluorspar
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Huston N. & Patricia V. Gilbert, 342 East Orangewood Ave., Phoenix, AZ 85020
SEC: 19 ,T: 19N ,R: 35E
North: 4372540 East: 406580
PRODUCTION: None reported
HISTORY: First discovered in 1944 and held until 1955 by V. S. Baxter, Klondyke Mining in 1972, some drilling, dozing and trenching but no production.
DEVELOPMENT: Several shallow adits, trenches and drilling.
GEOLOGY: The host rocks are light-gray quartz latite flows. The principal exposure of fluorspar is in a 30 foot cut and within a shallow adit that explored an east-trending, vertical, 4-foot thick vein containing stringers of purple and white fluorite crystals. Similar exposures of fluorite stringers can be seen in several of the other trenches. Sample 3914 was taken from the vein in the adit; it assayed low for all metals.
REMARKS:
SAMPLE SITE: 3914
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-26-86
Attachment:

PROPERTY NAME: Silver Center claim HD 1
OTHER NAMES: Wonder Quartzite Group
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Silver Center Mine Co., 120 Greenridge, Reno, Nevada 89502
SEC: 31 ,T: 19N ,R: 35E
North: 4368950 East: 405960
PRODUCTION: Unknown but thought to be low
HISTORY: Dug by hand dating from around 1907-1908
DEVELOPMENT: Two 75-100 foot shafts...hand capstan in place
GEOLOGY: Shaft was sunk on a bleached-white zone adjacent to a 30- to 40-foot thick silicified rib. The silicified structure crops out along a N40 degrees W strike and displays an irregular but near-vertical dip. These workings, in the western-most portion of the Silver Center Claim block, explore fracture zones that may project from the Wonder Mine to the southeast.
REMARKS:
SAMPLE SITE: 3894
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-24-86
Attachment:

PROPERTY NAME: Silver Center claim HD 3
OTHER NAMES: Wonder Quartzite Group
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Silver Center Mine, 120 Greenridge Reno, Nevada 89502
SEC: 36 ,T: 19N ,R: 34E
North: 4368850 East: 405780
PRODUCTION: Unknown
HISTORY: Workings date from about 1907-1908
DEVELOPMENT: Project pit adjacent to a shaft
GEOLOGY: The prospect pit exposes rhyolite along a fault-vein structure that cuts what appears to be altered andesite. The structure strikes N40 degrees E and dips 55 degrees NW. The contact zone displays white argillic alteration and contains minor quartz veining. Sample 3895 contained only 2 ppm silver and no detectable gold.
REMARKS:
SAMPLE SITE: 3895
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-24-86
Attachment:

PROPERTY NAME: Silver Center mine
OTHER NAMES: Belmont Resources Property
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold,
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Belmont Resources and Frank Lewis
SEC: 5 ,T: 18N ,R: 35E
North: 4368230 East: 407830
PRODUCTION: Unknown
HISTORY: Operated in 1982
DEVELOPMENT: Small open-pit and dozer cuts mostly along the east and north side of Porphyry Peak, which is reported to be dacite plug.
GEOLOGY: The Silver Center claims are along a vein system to the west of Wonder. The property was explored and mined from a small pit. It was reported that the ore ran 150 grams of silver per ton and was being mixed with older tailings from the Nevada Wonder Cyanide operations that ran 50 grams per ton. The two sources of ore were mixed and subjected to a heap leach. The operation was suspended in late 1984 due to declining silver prices. Sample 3804 was taken from portions of the exposed vein atop Porphyry Peak (reported to be a dacite plug) and consisted of vein-quartz containing minor sulfides. The assays showed 50 ppm silver and 0.05 ppm gold.
REMARKS:
SAMPLE SITE: 3804
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-8-86
Attachment:

PROPERTY NAME: Spider and Wasp patented claim
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Archie B. and Julia A. Brown, P.O. Bos 196, Cave Junction, Oregon 97523
SEC: 36 ,T: 19N ,R: 34E
North: 4369960 East: 405600
PRODUCTION: Unknown
HISTORY: Claims located June 3, 1906, patented Nov. 12, 1908 by the Spider-Wasp Mining Co.
DEVELOPMENT: One very large crosscutting adit.
GEOLOGY: The large adit was driven from the canyon to the east of the largest workings. It was driven to the west following and undercutting the large silicified vein and was probably intended to act as a lower level as well as to explore the lower portion of the vein system. Most of the workings were reported to have found very little mineralization below the 100 foot level (Shamberger, 1974, p. 28), and this may account for the limited vein material in this lower adit. The shallowness of the mineralization may have contributed to the short life of the camp as suggested by the same author, although there has not been any drilling or other activity since. Sample 3912 contained 50 ppm silver, all other metal values were low.
REMARKS:
SAMPLE SITE: 3912
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-26-86
Attachment:

PROPERTY NAME: Spider and Wasp patented claims
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Archie B. and Julia A. Brown, P.O. Bos 196, Cave Junction, Oregon 97523
SEC: 25 ,T: 19N ,R: 34E
North: 4370300 East: 404800
PRODUCTION: Unknown but workings are sizable
HISTORY: Claims located June 3, 1906, patented Nov. 12, 1908 by the Spider-Wasp Mining Co.
DEVELOPMENT: The two largest workings on the west side of the camp about a quarter mile from the Victor Site.
GEOLOGY: Most of the workings follow an east-west structure along a contact between the Dickey Peak Rhyolite and an andesite (Schrader, 1947). However, the shaft associated with these workings is almost entirely within a crystal rich tuff. The size of the dumps suggest more than two hundred feet of workings and the dump is almost barren of vein material. Sample 3905 was taken from the incline and shallow adit that are associated with the big shaft. The adit bears due south; the incline follows the dip slope of a highly oxidized, limonite-rich, silicified vein that forms a bold outcrop and strikes close to E-W. Mineralization seems to be associated with small gray quartz stringers containing fine-grained pyrite. Sample 3905, taken from the incline dumps, assayed 100 ppm silver, 200 ppm molybdenum, 100 ppm lead, and 8.6 ppm gold. Another adit-shaft 50 yards to the west of 3905, but on the same trend, yielded very similar ore from what appeared to be a more mineralized quartz vein. This sample, 3904, assayed 3000 ppm silver, 100 ppm molybdenum, 150 ppm lead, 150 ppm antimony, and .05 ppm gold.
REMARKS:
SAMPLE SITE: 3904, 3905
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-25-86
Attachment:

PROPERTY NAME: Spider and Wasp patented claims
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Archie B. and Julia A. Brown, P.O. Bos 196, Cave Junction, Oregon 97523
SEC: 25 ,T: 19N ,R: 34E
North: 4370230 East: 404960
PRODUCTION: Unknown
HISTORY: Claims located June 3, 1906, patented Nov. 12, 1908 by the Spider-Wasp Mining Co.
DEVELOPMENT: Relatively shallow adits and shifts located in the central portions of the camp.
GEOLOGY: These workings consist of shallow adits and shafts that explore a large E-W vein structure. Nearly all of the workings in the camp enter the vein from the north while a few of the workings on the east side of the camp either sink on or stope through the top of the system. The central workings are characterized by a milky-white comb quartz vein containing black specks of silver sulfides. Sample site 3906 was from a small adit and shaft where the subsurface workings are connected. The quartz-ore assayed 2000 ppm silver and 2.1 ppm gold. Sample 3907 came from another shaft and adit a few hundred feet to the southeast and consisted of milky-white comb quartz from a vein in the adit. The some of the vein gouge and wall rock appeared to be a white, very highly altered tuff(??). The sample assayed 1000 ppm silver, 50 ppm lead, and 25 ppm gold.
REMARKS:
SAMPLE SITE: 3906, 3907, 3908
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-25-86
Attachment:

PROPERTY NAME: Spider and Wasp patented claims
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Archie B. and Julia A. Brown, P.O. Bos 196, Cave Junction, Oregon 97523
SEC: 25 ,T: 19N ,R: 34E
North: 4370010 East: 405360
PRODUCTION: Exact figures are not available
HISTORY: Claims located June 3, 1906, patented Nov. 12, 1908 by the Spider-Wasp Mining Co.
DEVELOPMENT: Shafts, adits, stope of the major workings of the camp.
GEOLOGY: A 160 foot long adit follows the strike of the very large generally E-W striking vein system that, at this locality, strikes N45 degrees W and dips 45-55 degrees NE. There is a 200-300 foot blocky outcrop of silicified rhyolite near the portal of the adit. The workings follow a 5- to 6-foot thick silicified breccia formed along a fault zone; the zone includes a 6-inch thick lense of limonite-stained, brecciated quartz vein. The wall rock is composed of bleached, kaolinized, silicified rhyolite tuff. Approximately 140 feet into the adit, a stope opens to the surface and a 40 degree decline extends to about 40 feet then steepens. The open stope is connected to an adjacent shaft to the east above the level of the adit. Sample 3908 was selected from the dump and consisted of highly silicified, flint-hard breccia containing dark fine-grained pyrite. The sample assayed 1000 ppm silver, 300 ppm copper, 500 ppm molybdenum, 200 ppm lead and .70 ppm gold. Sample 3909 was collected from the dump and stope and contained similar material. It assayed 1500 ppm silver, 300 ppm copper, 100 ppm molybdenum, and 3.8 ppm gold. Sample 3929 came from the stope chute in the mine at adit level and was chipped from a vein in the stope. The sample assayed 2000 ppm silver, 150 ppm molybdenum, 50 ppm lead and 4.9 ppm gold.
REMARKS:
SAMPLE SITE: 3908, 3909, 3929
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-25-86
Attachment:

PROPERTY NAME: Spider and Wasp patented claims
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Archie B. and Julia A. Brown, P.O. Bos 196, Cave Junction, Oregon 97523
SEC: 25 ,T: 19N ,R: 34E
North: 4370340 East: 404340
PRODUCTION: Unknown
HISTORY: Claims located June 3, 1906, patented Nov. 12, 1908 by the Spider-Wasp Mining Co.
DEVELOPMENT: Several adits, one shaft, and an incline on the western most portion of the patent, along the northwest flank of Dickey Peak.
GEOLOGY: Sample Site 3910 is a large, double-compartment shaft sunk on welded ash-flow tuff adjacent to a large rhyolite dike. The workings apparently encountered the dike at depth as pieces of quartz vein and dike material cover the dump. Assays of vein material ran 5 ppm silver and were low in base metal values. Sample 3911 from the nearby shaft/adit was chipped from quartz stringers in a 4-6 foot fault zone that bears N75 degrees W, 40 degrees NE. The country rocks is andesite and the incline which followed the dip slope may have intercepted the first shaft at depth. Sample 3911 assayed 100 ppm silver, 1.5 ppm gold, and 70 ppm lead, but was otherwise low in base metals.
REMARKS:
SAMPLE SITE: 3910, 3911
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-26-86
Attachment:

PROPERTY NAME: Spider and Wasp patented claims
OTHER NAMES: Sample site 3903
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Archie B. and Julia A. Brown, P.O. Box 196, Cave Junction, Oregon 97523
SEC: 30 ,T: 19e ,R: 35e
North: 4370330 East: 406240
PRODUCTION: Unknown
HISTORY: Claims located June 3, 1906, patented Nov. 12, 1908 by the Spider-Wasp Mining Co.
DEVELOPMENT: Sizable shaft
GEOLOGY: Workings consist of an adit and a shaft which explores a boldly-outcropping silicified structure that cuts andesite wall rocks. The outcrop is silicified and iron-oxide stained, is vuggy in places, is partially leached and locally displays boxworks structures. The fault-vein may be the Great Eastern vein system referred to by Schrader (1947). The country rock is andesite and the veins in part appear to be rhyolitic. The vein-andesite contact zone has been altered in part to a white argillite. Sample 3903 was selected from the dumps and consisted of gray-white quartz with wispy-gray sulfides. Assay values were very low for all metals; silver was present at only 5 ppm.
REMARKS:
SAMPLE SITE: 3903
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-25-86
Attachment:

PROPERTY NAME: Treasure Hill #1075 claim
OTHER NAMES: Gold King Group
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Ray A. Perry, 1152 St. John Place, Santa Ana, CA 92705
SEC: 30 ,T: 19N ,R: 35E
North: 4370410 East: 406810
PRODUCTION: Unknown but thought to be small.
HISTORY: Dates from the early 1900's and later in the 1930's
DEVELOPMENT: Open stope above a small caved adit.
GEOLOGY: Open-stope associated with caved adit is in rhyolite, workings follow an irregular-striking vein in and along the major fault-vein system identified by Schrader (1947) as the Gold King Group fault. Sample 3925 was collected from within the stope and from the associated dumps and consisted of vuggy, limonite-stained, cream-colored quartz-adularia and white quartz with silver sulfide specks. Sample 3925 assayed .85 ppm gold and 1000 ppm silver with only minor base metals.
REMARKS:
SAMPLE SITE: 3925
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-6-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1131
OTHER NAMES: Marie Group
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Lowell Garr Merrill (Trust) 3065 Circle Way, Ogden, Utah 84403
SEC: 1 ,T: 18N ,R: 34E
North: 4368320 East: 405860
PRODUCTION: Unknown
HISTORY: Workings appear to date from the ear of the 1907-1908 exploration.
DEVELOPMENT: Mostly prospect pits and minor shallow workings.
GEOLOGY: The prospect pits and workings are along the Marie-Ruby fault-vein system identified earlier by Schrader (1947), and all are in the Wonder Rhyolite. A half dozen of the prospects are pits and shallow workings that follow exposed silicified, oxidized, iron-stained and leached portions of the vein. Sample 3899 was selected from dumps associated with the workings. Locally there are dikes of darker but more highly altered andesite(??). Sample 3899 contained 30 ppm silver, 45 ppm gold; all other values were very low.
REMARKS:
SAMPLE SITE: 3899
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-24-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1134
OTHER NAMES: Wonder Quartzite Group
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Howard & Mildred Seitz, 4639 E. Windsor Ave., Phoenix, AZ 85018
SEC: 36 ,T: 19N ,R: 34E
North: 4369000 East: 405600
PRODUCTION: Unknown
HISTORY: Dates from 1907-1908
DEVELOPMENT: A hand-dug incline that steepens to a shaft at depth.
GEOLOGY: The workings are along a 20-40 foot wide silicified zone in rhyolite that follows a N45 degree E bearing and dips steeply to the NW. Locally there are outcrops of highly altered tuff(??) The contact zone between the silicified zone, or "vein," and rhyolite is bleached, white argillite; the "vein" is composed of minor quartz stringers. Much of the vein and argillized contact zone appear to have been leached; boxwork structures are evident. Sample 3896 contained 0.15 ppm gold, 150 ppm molybdenum; all other values were low.
REMARKS:
SAMPLE SITE: 3896
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-24-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1148
OTHER NAMES: Colorado Group
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: John H. & Mary Jeanne Wallace. ACP 399 East Highland Dr., Ste 421, San Bernardina, California 94104
SEC: 1 ,T: 18N ,R: 34E
North: 4367290 East: 404840
PRODUCTION: Unknown
HISTORY: Exploration dates from 1907-1908
DEVELOPMENT: Shallow prospects
GEOLOGY: Sample 3901 was chipped from an outcrop of silicified rhyolite and strongly silicified vein contact; zone is bleached white, and argillically altered. Parts of the vein appear to have been leached and display boxworks structures. Country rock is reported to be Wonder Rhyolite (Schrader, 1947). Locally, there are dikes of what appear to be an altered andesite. Sample 3901 assayed 1000 ppm silver, 200 ppm copper, 3000 ppm lead, and .05 ppm gold.
REMARKS:
SAMPLE SITE: 3901
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-24-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1149
OTHER NAMES: Colorado Group
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: John H. & Mary Jeanne Wallace. ACP 399 East Highland Dr., Ste 421, San Bernardina, California 94104
SEC: 1 ,T: 18N ,R: 34E
North: 4367430 East: 404840
PRODUCTION: Unknown
HISTORY: Exploration dates from the 1907-1908 and are referred to by Schrader (1947)
DEVELOPMENT: Workings consist of shallow adits and prospects.
GEOLOGY: Several cross-cuttings adits explore NNW-striking quartz veins near their intersection with N70 degrees-80 degrees W zones of silicified rhyolite. The structures are within what may be the Wonder Rhyolite. The only mineralization noted consisted of yellow and green oxides within vein material. Sample 3900 contained 700 ppm silver, 0.20 ppm gold, 1000 ppm copper, and 3000 ppm lead.
REMARKS:
SAMPLE SITE: 3900
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-24-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1157
OTHER NAMES: Marie Group
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Robert Murphy Silver Venture 10, 2018 Pico Blvd., Santa Monica, California 90405
SEC: 36 ,T: 19N ,R: 34E
North: 4368560 East: 405400
PRODUCTION: Unknown
HISTORY: Dates from 1907-1908 period of exploration.
DEVELOPMENT: An adit adjacent to an inclined shaft. There was also a blacksmith hearth and possible living space within the adit.
GEOLOGY: The workings follow a 5 foot thick vein on a N35 degree E heading. The incline follows the vein on a 30 degree NE dip slope that steepens at depth. The vein is in a fault that follows the contact of a highly altered rhyolite and tuff or andesite(??). The vein is composed largely of argillically altered volcanic rubble. The sample was selected from the dumps highly oxidized material and shipped from the vein. Assay results shown 100 ppm lead, 30 ppm tin, 1 ppm silver, less than .05 ppm gold.
REMARKS:
SAMPLE SITE: 3897
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-24-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1157
OTHER NAMES: Wonder Central Group
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Robert Murphy Silver Ventures II, 2018 Pico Blvd., Santa Monica, CA 90405
SEC: 1 ,T: 18N ,R: 34E
North: 4368200 East: 405180
PRODUCTION: None
HISTORY: Probably part of the earliest exploration.
DEVELOPMENT: Small prospect
GEOLOGY: A small vein occupies a N-S trending shear zone cutting Wonder Rhyolite. The wall rocks display strong argillic alteration. Assay values for Sample 3902 were very low for all elements.
REMARKS:
SAMPLE SITE: 3902
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-24-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1177
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP:
SEC: 35 ,T: 19N ,R: 34E
North: 4369605 East: 403400
PRODUCTION: Unknown
HISTORY: Earliest days of the camp 1907-1908
DEVELOPMENT: One old shaft and several prospects
GEOLOGY: The workings explore a N60 degree W shear that dips 70 degrees NE that contains converging quartz veins. A second larger vein (2'-4' wide) bears more east-west. The country rock is a highly altered rhyolite but there are local outcrops of ash-flow tuff. Sample 3923 collected from the shaft dump, assayed 7 ppm silver and 300 ppm molybdenum. To the west, a line of shallow prospect pits explore another parallel vein. Sample 3924 chipped from an exposure of this vein in one of the pits, consisted of silicified rhyolite vein-quartz. The sample assayed 70 ppm lead and 30 ppm tin, but contained no detectable silver or gold.
REMARKS:
SAMPLE SITE: 3923, 3924
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-6-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1196
OTHER NAMES: Corcoran claims
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Pirouette Mtn.
OWNERSHIP:
SEC: 35 ,T: 19N ,R: 34E
North: 4369890 East: 403100
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: One adit, one incline and a line of prospects not shown on map.
GEOLOGY: A wooden hand-capstan still stands above an old shaft sunk on a N80 degrees E 70 degrees NW shear in rhyolite in the bottom of a narrow canyon; an adit follows the vein on the south side of the canyon. The vein may be 10 feet wide in outcrop and is iron-stained, oxidized and looks leached. Sample 3922 taken from the dumps, was mostly silicified rhyolite containing some vein-quartz that assayed 500 ppm lead; contained no detectable silver or gold.
REMARKS:
SAMPLE SITE: 3922
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-6-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1211
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Pirouette Mtn.
OWNERSHIP: Harold H. McQuiddy, 505 N. Arrowhead, San Bernardina, California 92401
SEC: 10 ,T: 18N ,R: 34E
North: 4366700 East: 402820
PRODUCTION: Unknown
HISTORY: Unknown, but old. Very few remnants of the road show an access from the east-northeast?? Probably south from Red Top Gulch, not the west.
DEVELOPMENT: Old shaft and trench
GEOLOGY: The shaft was sunk along a contact between Mesozoic sediments and volcanics dacite intrusive(??). Mineralization included minor epidote and pyrite. Sample 3919 from the dump assayed 70 ppm lead.
REMARKS:
SAMPLE SITE: 3919
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-6-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1213
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Pirouette Mtn.
OWNERSHIP: Wayne Tayson, 1125 W. Alemeda Rd., Pocatello, Idaho 83201
SEC: 11 ,T: 18N ,R: 34E
North: 4366700 East: 403050
PRODUCTION: Unknown
HISTORY: From earliest days of district road was from northeast via Red Top Gulch
DEVELOPMENT: A partially timbered, inaccessible shaft and a line of prospects.
GEOLOGY: The workings explore a N50 degrees W striking, steeply-dipping shear along a contact zone between volcanics and older sediments of probable Mesozoic age. The wall rock and portions of the shear zone are brecciated; the breccia consists of small fragments of sediment in a matrix of silicified volcanics. Some of the sediments away from the shear are coated with epidote; some sulfide replacement mineralization occurs within the sedimentary rocks. Sample 3920 was collected from a prospect pit southeast of the main shaft; this sample contained only minor lead values. Sample 3921, selected from the dump associated with the shaft, consisted of light to dark green oxides of lead with specks and clots of galena in a highly porous, strongly manganese-stained matrix. Assays of the sample ran 20,000 ppm lead, 5000 ppm zinc, 5000 ppm manganese, 1000 ppm strontuim, 200 ppm silver, 150 ppm bismuth, 150 ppm molybdenum, 20 ppm tin, and .05 ppm gold.
REMARKS:
SAMPLE SITE: 3920, 3921
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-6-86
Attachment:

PROPERTY NAME: Treasure Hill claim #1417
OTHER NAMES: Red Bee #2 claim
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Quartz vein in shear
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Richard A. & Sandra A. McDaniel, 1121 Sommerset Lane, Newport Beach, CA 92660
SEC: 19 ,T: 19N ,R: 35E
North: 4372600 East: 406740
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A single shaft about 75 feet deep
GEOLOGY: Workings were sunk on a shear zone which follows a contact zone bearing N35 degrees W, 65 degrees NE in a volcanic tuff. Some of the contact zone consists of a silicified volcanic breccia containing minor pyrite. Sample 3913 taken from the dump, assayed 5 ppm silver, contained no gold and reported very low values for base metals.
REMARKS:
SAMPLE SITE: 3913
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-26-86
Attachment:

PROPERTY NAME: Treasure Hill claims #1075, #1076
OTHER NAMES: Gold King Group, Sample sites 3927, 3928
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Ray A. Perry, 1152 St. John Place, Santa Ana, CA 93705
SEC: 30 ,T: 19N ,R: 35E
North: 4370460 East: 406740
PRODUCTION: Some ore was shipped but value unknown
HISTORY: Workings date from the early 1900's and possibly some work in the 1930's.
DEVELOPMENT: Several southwest-facing adits.
GEOLOGY: Two parallel southeast-bearing adits follow veins along and into a major northwest striking fault system identified by Schrader (1947) as the Gold King Group fault. The fault may have been active in 1903 according to Schrader and was known to have been active during the 1954 Fairview-Dixie Valley earthquake. A fault scarp can be traced along the strike of the fault as it crosses the ridge above the mines near Geiger Gap, and the fault can be identified at depth in the adits to the east. The veins associated with the Gold King Group workings strike from N40 degreed to N60 degrees E, dip steeply to the northeast, and cross the major Gold King Group fault. Most of the workings follow parallel structures at the northeast headings. Two adits further to the west and lower on the hill follow structures that bear S70 degrees E and dip close to vertical. The upper of the two adits is about 56 feet long and follows a vein that makes a minor jog 35 feet from the portal (see sketch map). Sample 3927 was taken from the vuggy, iron-stained quartz-adularia vein and included some vein material selected from the dump. Sample 3928 was taken from the dump and loading-bin at the lower most adit near the bottom of the slope. The lower adit is about 190 feet long and crosscuts the strike of (con't appendage)
REMARKS:
SAMPLE SITE: 3927, 3928
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-7-86

Attachment: the major vein system; see sketch map. The vein intersected in the lower adit consists of quartz-adularia with definite specks of gray silver sulfides. The adit ends into a rubble zone near the face. Sample 3927 assayed 6.5 ppm gold and 500 ppm silver, while sample 3928 contained 700 ppm silver, and 3.5 ppm gold.

PROPERTY NAME: Vulture mine
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Unknown
SEC: 32 ,T: 19N ,R: 35E
North: 4369280 East: 408520
PRODUCTION: Approximately 40 tons worth $100/ton
HISTORY: Most of the work was done in 1907
DEVELOPMENT: A 600-foot long adit and 200-foot deep shaft, open stope and cross-cuts.
GEOLOGY: The principal vein, known as the Vulture vein, strikes N 10 degrees W, dips near vertical, and is hosted in Wonder Rhyolite. The main adit is reported to have cut a dike of Extension Rhyolite which Schrader credits as being the probable source of the mineralization. He also reported the presence of an andesite dike 250 feet south of the main tunnel. The ground around the workings is badly fractured and faulted; breccia is associated with some of the broken ground and is present in the dumps. The main vein is about two feet wide and is opened by the main adit. The best ore came from the upper 50 feet of the vein and consisted of yellow-brown silver chloride which was reported to be very amenable to screening. Sample 3806 came from the upper exposed vein and from the ore-bin. The sample contained over 5000 ppm silver and 6 ppm gold.
REMARKS:
SAMPLE SITE: 3806
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-8-86
Attachment:

PROPERTY NAME: Wonder Mine
OTHER NAMES:
MINING DISTRICT: Wonder
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Wonder Mtn.
OWNERSHIP: Most of the patented ground owned by Frank Lewis of Reno
SEC: 4 ,T: 18N ,R: 35E
North: 4366920 East: 409520
PRODUCTION: Most productive years were between 1911-1919.
HISTORY: The productive years produced over 5,700,000 although leasors have operated the mine off and on since with Belmont Resources currently in operation.
DEVELOPMENT: Originally two shafts operated to 2000 feet with a total of 12 miles of underground workings. Currently Belmont is operating a heap leach cyanide operation.
GEOLOGY: Burgess (1917) and Schrader (1947) describe the main vein and adjacent veins as ranging in width from less than a foot to 40 feet in width. They were separated from the wall rock by tabular sheets of gouge that was good ore. The main vein system followed a contact between a large dacite intrusive and the younger quartz latite and rhyolite. On the northern end of the vein, it was traced entirely within the younger volcanics. Oxides were reported to a depth of 1300 feet; ores contained no zinc and only minor aresnic and antimony. The principal gangue minerals were quartz and adularia with brecciated wall rock material. The main values were in the hanging wall and consisted chiefly of argentite, cerargyrite and halogen salts.
Sample 3802 was chipped from an exposed vein in one of the north facing adits while 3803 was selected from the north dump. The samples consisted of quartz-adularia, some quartz with breccia containing minor pyrite and silver sulfides.
REMARKS:
SAMPLE SITE: 3802, 3803
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-8-86
Attachment:

PROPERTY NAME: Blue Hill claims
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: Lincoln Flat
OWNERSHIP: Unknown
SEC: 9 ,T: 13N ,R: 24E
North: 4319419 East: 301488
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Older adits, shafts and prospects, later dozing and road followed by drilling, about a one square mile area.
GEOLOGY: The older workings are directed at veins in highly altered Hartford Hill rhyolite of Tertiary age or deeply weathered Cretaceous granite. Sample 4418 is from a dozer-cut that exposes a silicified vein in the rhyolite. The vein consists of silicified gouge and quartz with sulfides. This location is very near the contact with granite and next to a drill hole.
REMARKS:
SAMPLE SITE: 4418
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: Blue Jay mine
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Shear zone
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 20 ,T: 13N ,R: 26E
North: 4316708 East: 318986
PRODUCTION: None reported, but part of the top of the mountain has a large amount of material removed.
HISTORY: References in the data are from 1910, some current activity includes ongoing road building and occupied living facility.
DEVELOPMENT: Large open pit atop the mountain may have removed most of the old workings, where a shaft and different lower underground level were worked.
GEOLOGY: Copper mineralization occurs in a shear zone in granodiorite and consists of oxidized minerals near the surface and chalcopyrite at depth. Lots of argillic and sericitic alteration.
REMARKS: New Copper King claims may cover this area???
SAMPLE SITE: 4239
REFERENCES: Ransome, F.L., March 5, 1910, Yerington Copper District, Mining and Scientific Press.
Moore, J.G., 1969, Geology and Mining Deposits of Lyon, Douglas, and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 6-26-89
Attachment:

PROPERTY NAME: Blue Rose claims
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure filling
QUAD SHEET: Artesia Lake
OWNERSHIP: Unknown
SEC: 22 ,T: 13N ,R: 24E
North: 4316941 East: 302610
PRODUCTION: Unknown
HISTORY: Newer dozer-cuts superimposed on older workings.
DEVELOPMENT: Adits, pits, later dozing.
GEOLOGY: Older adits and prospects are along an irregular contact between granite of Cretaceous age and meta-volcanics of Jurassic-Triassic age. Nearby Tertiary sediments overlying the earlier rocks have been argillically altered and bleached white. Minor fissure-filling contains some copper mineralization which may have attracted turquoise miners.
REMARKS: Sample 4411 was collected from the fissure.
SAMPLE SITE: 4411
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: Casting Copper mine
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Artesia Lake
OWNERSHIP: Unknown
SEC: 34 ,T: 13N ,R: 24E
North: 4313238 East: 302779
PRODUCTION: Reported to total $4,265,942
HISTORY: Before 1914, 29,000 tons was shipped but no details, with the major production between 1916 to 1919.
DEVELOPMENT: Glory hole shaft and down to 350 level, railroad bed passes right through the dumps.
GEOLOGY: The ore occurs at the contact between garnetized meta-sediments and limestone that has been intruded by granodiorite and monzonite. The major structural control is a N 50 degree E shear, dipping 70 degrees NW. In the shear above 200 feet is a zone of secondary enrichment, with chalcocite, covellite, chrysocolla, and copper carbonates.
REMARKS: The Nevada Copper Belt (NCB) dead-headed at Ludwig to the north and also carried ore from the Casting Copper mine.
SAMPLE SITE: 4409
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas, and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: CMB claim #6
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Gossan vein
QUAD SHEET: Lincoln Flat
OWNERSHIP: Unknown
SEC: 30 ,T: 14N ,R: 24E
North: 4323033 East: 305036
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit and prospect
GEOLOGY: A 3-foot wide vein is capped by thick, iron-oxides. The N 80 degrees E-striking vein is explored by and adit and followed into the granite host by prospects.
REMARKS:
SAMPLE SITE: 4416
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: Copper Ridge mine
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Metasomatic vein
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 20 ,T: 13N ,R: 26E
North: 4316289 East: 318822
PRODUCTION: Unknown, but there had to be some as much material removed from property.
HISTORY: It was originally owned by Yerington Copper Company in 1912.
DEVELOPMENT: A 400-foot shaft and adits to different levels.
GEOLOGY: A 6-8 foot fissure vein in granodiorite adjacent to a porphyry dike strikes N 65 degrees E and dips 55 degrees SE. A 400 foot shaft was sunk on the vein which was connected by adits driven at different levels. "Metasomatic vein" is the term used by earlier workers to describe the vein system and adjacent replacement bodies. Copper oxides were present in the top of the system while chalcopyrite dominated the lower mineralization.
REMARKS: Very poor roads in the area of the workings which are atop the highest point of the hill.
SAMPLE SITE: 4240
REFERENCES: Ransome, F.L., 1910 Yerington Copper District, Mining and Scientific Press.
EXAMINER: Jack Quade
DATE VISITED: 6-26-89
Attachment:

PROPERTY NAME: Coyote #6 claim
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Yerington SE
OWNERSHIP: Unknown..claim without paper
SEC: 18 ,T: 11N ,R: 27E
North: 4298094 East: 325854
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A shaft and several adits, several prospects
GEOLOGY: An adit and shaft have exposed a N 25 degrees W-striking vein, 16- to 25-inches in width and dipping 65 degrees SW. Two other adits follow smaller, roughly sub-parallel shear veins. All of the workings are in weathered granite of Cretaceous age. The main shaft was sunk on the dip-slope of the vein and lower adits can be seen cross-cutting the shaft down to the third level. Part of the vein has been stoped to the surface along its strike to the north. The vein consists of quartz and partially silicified gouge.
REMARKS:
SAMPLE SITE: 4269
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: Dottie claim
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Hinkson Slough
OWNERSHIP: Charles Gibbs, 23 Fallon Way, Yerington, NV
SEC: 12 ,T: 13N ,R: 26E
North: 4319889 East: 324649
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit
GEOLOGY: An adit follows the S 85 degrees E strike of a very low-angle, south-dipping shear in granodiorite. The shear zone shoes minor copper mineralization with crushed, silicified and brecciated vein material. The vein ranges in width from 18 to 24 inches.
REMARKS: No road the last half mile.
SAMPLE SITE: 4237
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-26-89
Attachment:

PROPERTY NAME: G.B. Martin claims
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper, silver, gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Lincoln Flat
OWNERSHIP: Unknown
SEC: 35 ,T: 14N ,R: 24E
North: 4322342 East: 304510
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Several inclines, adits and prospects
GEOLOGY: A near flat-lying, 3-foot quartz and breccia vein strikes N 55 degrees E. The highly silicified vein is stained with limonite and copper-oxides. The hangingwall above the vein is a weakly-metamorphosed, sandy limestone of Triassic age. To the east, the vein rolls over and dips more to the north.
REMARKS: Sample 4413 was taken from the exposed vein along its strike.
SAMPLE SITE: 4413
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: Gap claim
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Hinkson Slough
OWNERSHIP: Charles Gibbs, 23 Fallon Way, Yerington, NV
SEC: 12 ,T: 13N ,R: 26E
North: 4318999 East: 325034
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit and shaft
GEOLOGY: An adit and 30-foot shaft explore a 4 foot vein in granodiorite bearing N 80 degrees E and dipping 80 degrees S. Hanging wall is fresh but with broken granodiorite while the footwall is deeply iron-stained. The vein is partly crushed quartz with minor copper.
REMARKS:
SAMPLE SITE: 4238
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-26-89
Attachment:

PROPERTY NAME: Homestake mine
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper, lead, gold, silver
TYPE OF DEPOSIT: Vein and replacement
QUAD SHEET: Artesia Lake
OWNERSHIP: Unknown
SEC: 12 ,T: 12N ,R: 24E
North: 4309787 East: 304545
PRODUCTION: Small tonnage of copper-silver ore shipped in 1940.
HISTORY: Discovered before 1940 but there are detailed records.
DEVELOPMENT: Shafts and adits in a narrow, north-trending canyon a quarter mile wide and a half mile long.
GEOLOGY: The northern-most workings are in meta-sediments while the workings to the south are more in granite. The contact zone between the two areas is irregular and not well exposed. Copper sulfides and galena occur in both vein and replacement ore. Some of the quartz vein was brecciated near fissures in the south end of the camp.
REMARKS: Poor access to this part of the district
SAMPLE SITE: 4407
REFERENCES: Moore, J.G., 1969, Geology and Mining Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: LGCS claims
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Lincoln Flat
OWNERSHIP: Lawrence Goodhope, Combination Security
SEC: 9 ,T: 13N ,R: 24E
North: 4319690 East: 300323
PRODUCTION: Unknown
HISTORY: Older workings with later dozing in area but not at this site.
DEVELOPMENT: Two shafts, two adits and prospects
GEOLOGY: An almost east-west contact between sandy-limy, meta-sediments of Jurassic-Triassic age and granite of Cretaceous age. The contact system has a very limited skarn zone but there was visible scheelite along the system. The cross-cutting quartz vein and some of the limy sediments both had sulfides.
REMARKS:
SAMPLE SITE: 4419
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Little Jon claims
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Hinkson Slough
OWNERSHIP: Clifford Thompson, 22 Manhattan Lane, Yerington, NV, 89447
SEC: 2 ,T: 14N ,R: 26E
North: 4330518 East: 323490
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Dozer-cuts
GEOLOGY: Dozer-cuts exposed random, narrow quartz and calcite veins in meta-andesite. Some of the wall rock adjacent to the veins shows replacement minerals, mostly pyrite. The quartz veins have boxwork structures and much of the andesite has been argillically altered.
REMARKS:
SAMPLE SITE: 4235
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-26-89
Attachment:

PROPERTY NAME: Ludwig mine
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper, gold, silver, gypsum
TYPE OF DEPOSIT: A gossan-like shear zone
QUAD SHEET: Artesia Lake
OWNERSHIP: Patented claims
SEC: 28 ,T: 13N ,R: 24E
North: 4314284 East: 303090
PRODUCTION: The exact amount is not recorded.
HISTORY: Mine was shipping copper in 1906 and stopped in 1927. The last gypsum was shipped in 1940. The local mill processed primary copper ore. The railroad shipped both kinds of ore from Ludwig to Thompson near Wabuska; transferred to the C & C.
DEVELOPMENT: Miles of underground workings on 8 levels.
GEOLOGY: The copper lode/vein occurs at a contact between limestone and garnetite. The outcrop is a limonite gossan up to 80 feet wide and over 600 feet long on the surface. Metamorphic rocks on the east side of the vein have been intruded by quartz monzonite; marble forms the footwall of the vein.
To the north of the copper lode, gypsum crops out in an exposed belt about 500 feet wide and 1500 feet long. The fault zone parallels the copper load locally but terminates to the south property see (Moore, J.G., 1969, p. 32)
Sample 4408 was taken from dumps associated with the main copper load and consisted of replacement ore and gossan.
REMARKS: The Nevada Copper Belt Railroad (NCB) deadheaded at Ludwig and carried both gypsum and copper during the life of the raod, to Thompson, near Wabuska, where it was either processed or transferred to the C & C. Oddly enough, the NBC was a 48-inch standard gauge road while the C & C was a narrow gauge.
SAMPLE SITE: 4408
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas, and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: MacArthur copper property
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: porphyry
QUAD SHEET: Mason Butte
OWNERSHIP: Anaconda Co. (1975)
SEC: 25 ,T: 14N ,R: 24E
North: 4324233 East: 306181
PRODUCTION: 14 carloads of ore, averaging 1.22 percent copper, was shipped in 1943.
HISTORY: A major exploration in 1950. Area was again extensively explored in the 1960's and 1975's.
DEVELOPMENT: Extensive trenching and diamond drilling. Developed ore resources in 1976 were 6.5 million tons copper oxide material averaging a 0.44% Cu and an additional mineral resource of 6.5 million tons averaging 0.42% Cu.
GEOLOGY: The deposit occurs in a quartz monzonite and granodiorite of Triassic age intruded by steep, northerly dipping acid and basic dikes. At the surface, the deposit has a widespread iron-oxide capping with many green-stained copper outcrops, covering an area of approximately one half mile on a side. The southern portion contains secondary copper in the form of carbonates with no secondary enrichment. The northern half contains a well defined area of secondary enrichment, consisting of chalcocite disseminations and chalcocite, chalcopyrite, and pyrite crystals.
The primary mineralization consisted of pyrite and chalcopyrite sparsely disseminated.
REMARKS: Sample 4414 was a random sample from the north-south trenches.
Sample 4415 was from one of the old inclines sunk on a quartz vein in the northern part of the deposit.
SAMPLE SITE: 4414, 4415
REFERENCES: Matson, E.J., 1952, MacArthur Copper Deposit, Lyon County, Nevada Bureau of Mines. Report 4906
Anadonda Co. Annual Report, 1976
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: Martha Washington shaft
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Lincoln Flat
OWNERSHIP: Unknown
SEC: 2 ,T: 13N ,R: 24E
North: 4321276 East: 303431
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A major shaft and prospect trenches
GEOLOGY: A 6-foot-wide fissure vein striking N 80-85 degrees W is hosted in Cretaceous granite. The vein was sunk on by the shaft and prospected along its strike. The dumps are almost completely barren of vein material, being composed of dark-gray granodiorite.
REMARKS: Sample 4412 was taken from portions of the vein along the strike.
SAMPLE SITE: 4412
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: McCoy prospect
OTHER NAMES: Flyboy prospect
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper, molybdenum
TYPE OF DEPOSIT: Disseminated
QUAD SHEET: Yerington SE
OWNERSHIP: Unknown
SEC: 16 ,T: 11N ,R: 26E
North: 4298868 East: 320193
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adits, dozing and trenching
GEOLOGY: Approximately 50 feet of the top of a prominent knob has been dozed flat, making a terrace with material spilling off all sides. Several fractures and shear zones have been exposed, revealing blue and green fracture coatings of copper oxides. The host granite has been altered to a kaolinized, punky white. I did not see any molybdenum or uranium minerals but both are reported to be present. Copper, as oxides or ubiquitous sulfides, is rare.
REMARKS:
SAMPLE SITE: 4266
REFERENCES: Schilling, J.H., 1962, An Inventory of Molybdenum Occurrences in Nevada, NBMG Report 2.
Butler, J.N., 1958, Physical Beneficiation of Low Grade Uranium Ores, U.S. Atomic Energy Comm, RMO-2683.
EXAMINER: Jack Quade
DATE VISITED: 6-28-89
Attachment:

PROPERTY NAME: Montana-Yerington mine
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: porphyry
QUAD SHEET: Yerington
OWNERSHIP:
SEC: 18 ,T: 13N ,R: 25E
North: 4317422 East: 307242
PRODUCTION: 2500 tons ore averaging 6% copper, 1912-1914
HISTORY: Most work reported between 1912 and 1914.
DEVELOPMENT: Appears to have been one, possibly two vertical shafts along a vein structure; shafts have been dozed full of dump material
GEOLOGY: Rock on the mine dumps is mainly greenish-black and green, silicified granodiorite; rock green from chlorite, also contains clots of chalcopyrite, pyrite, and some chalcocite. Mine workings appear to follow a N60-70W, vertical to 60-degree SW-dipping fracture zone in silicifed intrusive rock; zone is a stockworks of limonite-coated fractures, some gossan veins along the fractures are 2- to 3-inches thick.
REMARKS: Knopf, 1918, p. 64, reports the main vein exposed in underground workings followed a N80E strike; strike noted at surface may not be main vein structure (?)
SAMPLE SITE: 4363
REFERENCES: Knopf, 1918, USGS Professional Paper 114
EXAMINER: J. V. Tingley
DATE VISITED: October 3, 1989
Attachment:

PROPERTY NAME: NW Section 31 copper-gold prospect
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper, gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Weber Reservoir
OWNERSHIP: Unknown
SEC: 31 ,T: 14N ,R: 27E
North: 4322936 East: 327239
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small prospect adit partially caved.
GEOLOGY: Narrow, irregular quartz vein in meta-sediments of Triassic age, follows a N 85 degrees W trend. The vein is up to 2 feet in width, contains copper minerals and pyrite. Similar prospects occur in this area wherever meta-sediments are present.
REMARKS: North of Highway 95.
SAMPLE SITE: 3780
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-12-89
Attachment:

PROPERTY NAME: Occasion claim
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 19 ,T: 12N ,R: 26E
North: 4306635 East: 317059
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Pits, dozer-cuts and small adit
GEOLOGY: Extensive dozer-cuts and pits along copper mineralization exposed in shears hosted in granite. This particular site consists of a vein in a shear striking N 85 degrees W, dipping 40-60 degrees to the south. The vein has copper oxides coating fractures and in places extending into the argillically-altered granite.
REMARKS: Some of the area has been drilled many years ago. Many of the prospects are bulldozer cuts that were done during the era when that type of work would suffice for assessment.
SAMPLE SITE: 4270
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: Pactulus Corp. claims
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Yerington NE
OWNERSHIP: Pactulus Corp.
SEC: 21 ,T: 13N ,R: 26E
North: 4315471 East: 320422
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A shaft, drifts at different levels, stopes, and prospects.
GEOLOGY: A major shaft and a line of open-stopes and prospects follow a N 75 degrees E striking vein, dipping 57 degrees N. The 6-foot wide structure is hosted in granodiorite. The vein consisted of silicified breccia and quartz stringers with copper oxides and sulfides.
REMARKS:
SAMPLE SITE: 4242
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-26-89
Attachment:

PROPERTY NAME: Poison Rock claims (east)
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Rhyolite dike
QUAD SHEET: Buck Brush Spring
OWNERSHIP: Lee Johnson, Box 74, Logandale, NV 89021
SEC: 7 ,T: 11N ,R: 27E
North: 4299232 East: 326486
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft, prospects and trenches
GEOLOGY: A small caved shaft on the N 70 degrees W strike of iron-rich rhyolite dike in granite. Area has been heavily trenched looking along the strike and laterally for more of the dike, structures or veins. The rhyolite and gouge from the structure was sampled (4268) from an exposure in a pit.
REMARKS: The area is a maze of new roads not shown on the current maps.
SAMPLE SITE: 4268
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: Poison Rock claims (west)
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Yerington SE
OWNERSHIP: Lee Johnson, Box 74, Logandale, NV 89021
SEC: 7 ,T: 11N ,R: 27E
North: 4299851 East: 325535
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Approximately a one mile square area of extensive old workings that are currently being cut up by dozers to explore for hidden structures and veins.
GEOLOGY: This particular site is a small shaft and adit following the strike of an irregular vein in meta-sediments near a contact with granite. Sample 4267 was chipped from the exposed vein in the adit. The vein is dominately silicified gouge in contact with argillically-altered sedimentary rocks.
REMARKS:
SAMPLE SITE: 4267
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: Section 13 copper prospects
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 13 ,T: 13N ,R: 26E
North: 4317382 East: 325401
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small prospect pits
GEOLOGY: Workings expose a N 80 degrees W striking, 2-foot vein with an irregular dip that can be traced for several hundred yards in granite. Many similar prospects occur in the granite.
REMARKS:
SAMPLE SITE: 3791
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

PROPERTY NAME: Section 14 shafts
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Artesia Lake
OWNERSHIP: Unknown
SEC: 14 ,T: 12N ,R: 24E
North: 4308237 East: 303717
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two shafts and prospects
GEOLOGY: Two shafts were sunk on a quartz vein striking N 25 degrees W. The vein averages up to 2 feet in width and can be traced on the surface for several hundred feet in a weathered granite.
REMARKS:
SAMPLE SITE: 4406
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: Section 15 shaft and adit
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 15 ,T: 12N ,R: 26E
North: 4307672 East: 321227
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft and adit
GEOLOGY: A low-angle thrust fault strikes N 65 degrees W and dips 20 degrees SW and has within it a 3-foot silica vein with copper oxides and sulfides. Part of the lower 2 feet of the vein consists of chloritic gouge that is partially silicified. The remainder is iron-rich and oxidized. All of the workings are in meta-sediments of Triassic age and near a contact with granite of Cretaceous age.
REMARKS:
SAMPLE SITE: 4271
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: Section 15 shafts
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 15 ,T: 12N ,R: 26E
North: 4308294 East: 321244
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shafts and open-stopes
GEOLOGY: A line of open-stopes and shafts expose a N 25 degrees W-striking vein that dips close to vertical. The 12- to 24-inch vein consists of vuggy quartz and quartz breccia with minor pyrite crystals and some limonite pockets. Slickensides were observed along the contact between the vein and granite host.
REMARKS:
SAMPLE SITE: 4272
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: Section 19 prospect
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): unknown
TYPE OF DEPOSIT: Fracture zone
QUAD SHEET: Hinkson Slough
OWNERSHIP: Unknown
SEC: 19 ,T: 14N ,R: 27E
North: 4325149 East: 325932
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Dozer-cuts
GEOLOGY: Exploration in lithic rich rhyolite flow. Fracture fillings are a emerald green oxide which sometimes occurs as coatings.
REMARKS: The cuts cover a fairly large area and all have the same, unclear, objective.
SAMPLE SITE: 4236
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-26-89
Attachment:

PROPERTY NAME: Section 21 shafts and adits
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 21 ,T: 13N ,R: 26E
North: 4316788 East: 320186
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit and shaft
GEOLOGY: Workings are along a due-west-striking vein dipping 70 degrees S. The structure is up to 5-feet in width and is hosted in highly altered granodiorite. The vein is iron-rich, silicified and highly oxidized.
REMARKS: The drifts have been stoped through to the surface along the strike for approximately 100 feet. Sample 4241 was taken from stockpiles of ore adjacent to the portal of the adit.
SAMPLE SITE: 4241
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-26-89
Attachment:

PROPERTY NAME: Section 23 incline
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Artesia Lake
OWNERSHIP: Unknown
SEC: 23 ,T: 13N ,R: 24E
North: 4315666 East: 303187
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: An incline and prospects
GEOLOGY: A N 15 degrees W-striking, 4-foot-wide quartz and quartz breccia vein can be traced on the surface for approximately 300 to 400 feet. The incline was sunk on the 55 degree SW dip of a vein that is hosted in a deeply weathered granite. Sample 4410 was taken from an outcropping portion of the vein adjacent to, and just south of the incline. Some minor copper mineralization is present along with some unidentified sulfides.
REMARKS: The road is more a stream course than a travel route.
SAMPLE SITE: 4410
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: Section 27/28 shaft
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Lincoln Flat
OWNERSHIP: Unknown
SEC: 27,28 ,T: 14N ,R: 24E
North: 4324464 East: 301562
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft
GEOLOGY: A rather barren dump associated with a shaft on a minor north-trending structure in dark gray volcanic intrusive. The shaft may be 60 feet deep and appears to have some drifting at a lower level. Sample 4421 was collected from the dump and consisted of silicified gouge.
REMARKS:
SAMPLE SITE: 4421
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Section 29 prospect
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Yerington
OWNERSHIP:
SEC: 29 ,T: 12N ,R: 25E
North: 4305358 East: 309186
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Vertical shaft, caving at collar, est. +50-feet deep; dog-hole along structure north of shaft.
GEOLOGY: East-west striking shear zone in medium- to coarse-grained granodiorite. Sheared area is about 60 feet wide, in the north dog-hole, dips 55-degrees south; in the shaft, the zone is more vertical. North workings expose a central hematitic-stained area about 1-inch thick with coatings of pyrolusite on fractures; biotite in granodiorite is altered to chlorite. Trace of green copper oxide staining in the shear zone.
REMARKS: No recent activity
SAMPLE SITE: 4370
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: 10/13/89
Attachment:

PROPERTY NAME: Section 34 shaft
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Intrusive contact
QUAD SHEET: Lincoln Flat
OWNERSHIP: Unknown
SEC: 34 ,T: 14N ,R: 24E
North: 4322053 East: 302137
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft, incline, trenches and prospects
GEOLOGY: An irregular dipping, 3-4 foot contact zone, between Cretaceous granite and the Hartford Hill Rhyolite of Tertiary age, was sunk on by a shaft and followed down the dip slope by an adit and incline.
REMARKS:
SAMPLE SITE: 4417
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-11-89
Attachment:

PROPERTY NAME: Section 36 shafts
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Contact
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 36 ,T: 13N ,R: 27E
North: 4312216 East: 325365
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two closely spaced shafts.
GEOLOGY: Both shafts were sunk on an irregular contact between granite and limestone. The skarn zone is relatively narrow where exposed and did not show any scheelite under U.V. lamp. Sample of quartz and some replacement ore had limited shows of copper.
REMARKS: Area was drilled many years ago.
SAMPLE SITE: 3789
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

PROPERTY NAME: Section 9 prospects
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 9 ,T: 12N ,R: 26E
North: 4308950 East: 319643
PRODUCTION: Unknown
HISTORY:
DEVELOPMENT: Shaft and adits
GEOLOGY: A line of workings including: shafts, adits, open-stopes, and pits expose a north-trending fissure vein in granite. Much of the vein consists of breccia and quartz with minor pyrite and other sulfides.
REMARKS:
SAMPLE SITE: 4274
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: Ser Mines prospect
OTHER NAMES: Ser Mines claims
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Veins
QUAD SHEET: Weber Reservoir
OWNERSHIP: Ser Mines, Inc.
SEC: ,T: 14N ,R: 27E
North: 4323043 East: 328780
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shafts, adits and prospects
GEOLOGY: A S 70 degrees E adit explores a quartz vein in meta-sediments and meta-volcanics. Some of the dumps contain minor skarn but did not show any visible scheelite nor were any granite exposures observed. Sample 3778 from dumps includes iron-stained quartz, copper oxides and sulfides and skarn.
REMARKS: South of Highway 95.
SAMPLE SITE: 3781
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-12-89
Attachment:

PROPERTY NAME: SW Section 10 shafts and adits
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 10 ,T: 12N ,R: 26E
North: 4309038 East: 320943
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shafts, adit and drifts.
GEOLOGY: A N 20 degrees-striking, near vertical vein in a fissure is hosted in granite and sunk on by shaft. From the top of the shaft, drifting along the strike can be observed. Approximately 10 tons of quartz vein and breccia is stockpiled on the dumps. Some of the material has been scooped up and hauled off.
REMARKS: The area has considerable brocken purple bottles in the vicinity of a camp site.
SAMPLE SITE: 4273
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-29-89
Attachment:

PROPERTY NAME: Tede Boy claims
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper, tungsten
TYPE OF DEPOSIT: vein
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 30 ,T: 13N ,R: 27E
North: 4314522 East: 325944
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Stip mine and adjacent old workings.
GEOLOGY: A N 70 degrees E-striking, 10-15 foot-thick mineralized zone in deeply weathered granite of Cretaceous age. Some of the vein material contains a fair amount of scheelite.
REMARKS: Area cut by roads and drilled maybe twenty years ago.
SAMPLE SITE: 3786
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

PROPERTY NAME: Valemar claim
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Contact
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 24 ,T: 13N ,R: 26E
North: 4315617 East: 325263
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Several adits, prospects and trenches.
GEOLOGY: A line of N 40 degrees E-striking workings follows a contact between a gossan-like, altered, meta-sediment and a Cretaceous ganite. There is no skarn zone but the gossan occurs in the iron-stained sediments. Sample 3790 was taken along the strike of the gossan zone.
REMARKS:
SAMPLE SITE: 3790
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

PROPERTY NAME: Western claim
OTHER NAMES:
MINING DISTRICT: Yerington
COUNTY: Lyon
MINERAL COMMODITY(IES): copper, silver
TYPE OF DEPOSIT: porphyry
QUAD SHEET: Yerington NE
OWNERSHIP: Unknown
SEC: 36 ,T: 13N ,R: 26E
North: 4313073 East: 325277
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit and shallow pit.
GEOLOGY: Workings follow a N 75 degrees E-striking, 60 N-dipping vein up to 18" wide in granite near a contact with Triassic chert. Part of the vein material is a chertified breccia; part is quartz with copper mineralization.
REMARKS: Very old workings.
SAMPLE SITE: 3788
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-13-89
Attachment:

**DATE DUE**

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